

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐  
(highlight changes)

<b>APPLICATION FOR PERMIT TO DRILL</b>				5. MINERAL LEASE NO: <b>ST UO 1194A</b>	6. SURFACE: State
1A. TYPE OF WORK: <b>DRILL</b> <input checked="" type="checkbox"/> <b>REENTER</b> <input type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/>				7. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>NA</b>	
B. TYPE OF WELL:    OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____    SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>				8. UNIT or CA AGREEMENT NAME: <b>891008900A</b>	
2. NAME OF OPERATOR: <b>Kerr-McGee Oil &amp; Gas Onshore, LP</b>				9. WELL NAME and NUMBER: <b>NBU 921-27MT</b>	
3. ADDRESS OF OPERATOR: <b>P.O. Box 173779</b> CITY <b>Denver</b> STATE <b>CO</b> ZIP <b>80217-3779</b>			PHONE NUMBER: <b>(720) 929-6226</b>		
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: <b>634' FSL &amp; 931' FWL</b> <i>624355x 44287284 40.0014 86</i> LAT <b>40.001547</b> LON <b>-109.543244</b> (NAD 27) AT PROPOSED PRODUCING ZONE: <b>N/A</b> <i>-109.543196</i>				11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SWSW 27 9S 21E</b>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: <b>15.7 miles northeast of Ouray, Utah</b>				12. COUNTY: <b>Uintah</b>	
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) <b>634'</b>		16. NUMBER OF ACRES IN LEASE: <b>1292.39</b>		17. NUMBER OF ACRES ASSIGNED TO THIS WELL: <b>40</b>	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) <b>20'</b>		19. PROPOSED DEPTH: <b>9,300</b>		20. BOND DESCRIPTION: <b>RLB0005237</b>	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): <b>4,974' GL</b>		22. APPROXIMATE DATE WORK WILL START:		23. ESTIMATED DURATION: <b>10 days</b>	

24. PROPOSED CASING AND CEMENTING PROGRAM							
SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT			SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT		
12 1/4"	9 5/8"	J-55	36#	2,350	Premium Cement	215 sx	1.18    15.6
					Premium Cement	100 sx	1.18    15.6
7 7/8"	4 1/2"	I-80	11.6#	9,300	Premium Lite II	470 sx	3.38    11.0
					50/50 Poz G	1500 sx	1.31    14.3

25. ATTACHMENTS	
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:	
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER <input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN <input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) Kevin McIntyre    TITLE Regulatory Analyst I  
 SIGNATURE *Kevin McIntyre*    DATE 6/30/2008

(This space for State use only)

API NUMBER ASSIGNED: 43-047-40171

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

APPROVAL:

Date: 09-02-08  
 By: *[Signature]*

**RECEIVED  
JUL 03 2008**

DIV. OF OIL, GAS & MINING

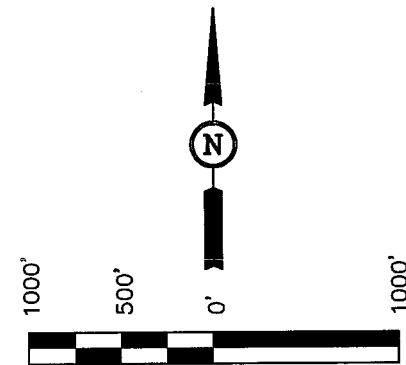
# T9S, R21E, S.L.B.&M.

## Kerr-McGee Oil & Gas Onshore LP

Well location, NBU #921-27MT, located as shown in the SW 1/4 SW 1/4 of Section 27, T9S, R21E, S.L.B.&M. Uintah County, Utah.

### BASIS OF ELEVATION

TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.

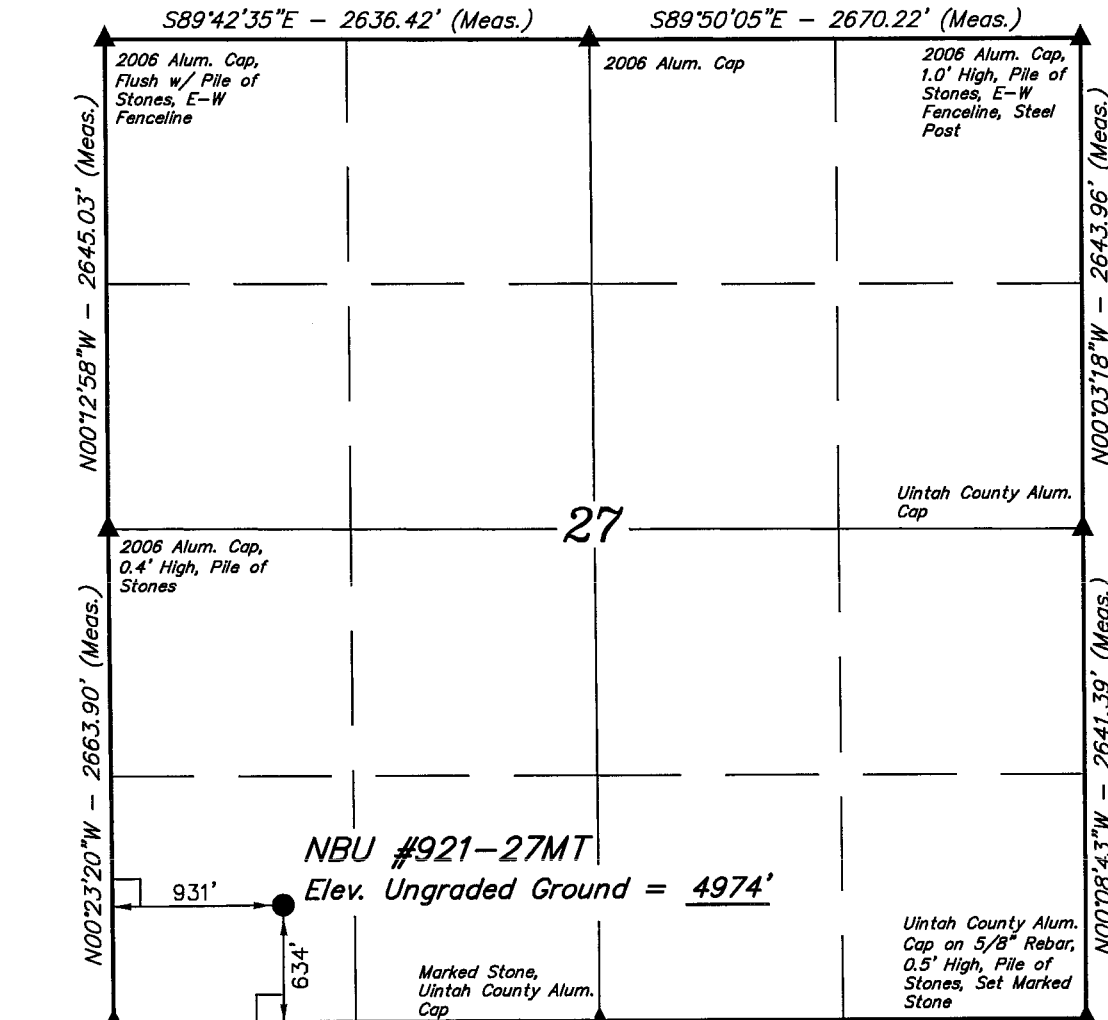


SCALE

### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*[Signature]*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH



2006 Alum. Cap, N89°59'09"E - 2642.00' (Meas.)  
0.8' High, Set Marked Stone, Steel Post

N89°57'39"E - 2645.77' (Meas.)

**BASIS OF BEARINGS**

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

### LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

(NAD 83)  
LATITUDE = 40°00'05.44" (40.001511)  
LONGITUDE = 109°32'38.16" (109.543933)  
(NAD 27)  
LATITUDE = 40°00'05.57" (40.001547)  
LONGITUDE = 109°32'35.68" (109.543244)

**UINTAH ENGINEERING & LAND SURVEYING**  
85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 06-08-08	DATE DRAWN: 06-10-08
PARTY L.K. D.K. S.L.	REFERENCES G.L.O. PLAT	
WEATHER WARM	Kerr-McGee Oil & Gas Onshore LP	

**NBU 921-27MT  
SWSW Sec. 27, T9S,R21E  
UINTAH COUNTY, UTAH  
ST UO 1194A**

**ONSHORE ORDER NO. 1**

***DRILLING PROGRAM***

**1. Estimated Tops of Important Geologic Markers:**

<u>Formation</u>	<u>Depth</u>
Uinta	0- Surface
Green River	1498'
Birds Nest	1802'
Mahogany	2291'
Wasatch	4821'
Mesaverde	7653'
MVU2	8624'
MVL1	9210'
TD	9300'

**2. Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River	1498'
Water	Birds Nest	1802'
Water	Mahogany	2291'
Gas	Wasatch	4821'
Gas	Mesaverde	7653'
Gas	MVU2	8624'
Gas	MVL1	9210'
Water	N/A	
Other Minerals	N/A	

**3. Pressure Control Equipment (Schematic Attached)**

*Please refer to the attached Drilling Program.*

**4. Proposed Casing & Cementing Program:**

*Please refer to the attached Drilling Program.*

**5. Drilling Fluids Program:**

*Please refer to the attached Drilling Program.*

**6. Evaluation Program:**

*Please refer to the attached Drilling Program.*

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 9300' TD, approximately equals 5766 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 3720 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

*Drilling is planned to commence immediately upon approval of this application.*

9. **Variances:**

*Please refer to the attached Drilling Program.*

*Onshore Order #2 – Air Drilling Variance*

*Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2*

- *Blowout Prevention Equipment (BOPE) requirements;*
- *Mud program requirements; and*
- *Special drilling operation (surface equipment placement) requirements associated with air drilling.*

*This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.*

*The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.*

*More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.*

*Background*

*In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet.*

*The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.*

*Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.*

*The air rig is then mobilized to drill the surface casing hole by drilling a 12-1/4 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 12-1/4 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 9-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.*

*KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.*

#### *Variance for BOPE Requirements*

*The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.*

#### *Variance for Mud Material Requirements*

*Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.*

#### *Variance for Special Drilling Operation (surface equipment placement) Requirements*

*Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.*

*Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.*

*Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.*

*Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.*

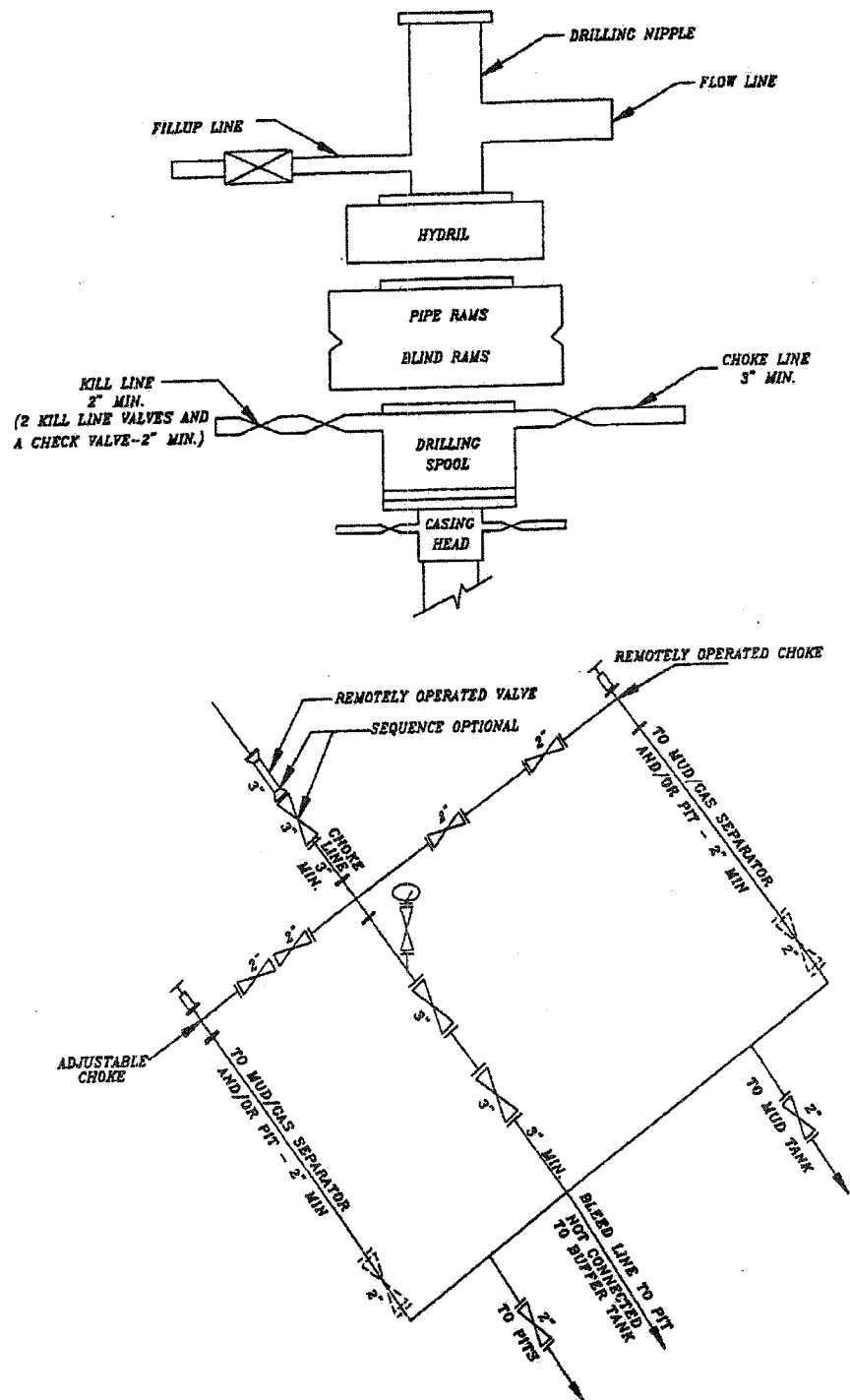
*Conclusion*

*The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.*

**10. Other Information:**

*Please refer to the attached Drilling Program.*

EXHIBIT A



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

**NBU 921-27MT  
SWSW SEC 27-T9S-R21E  
Uintah County, UT  
ST UO 1194A**

**ONSHORE ORDER NO. 1**

***MULTI-POINT SURFACE USE & OPERATIONS PLAN***

**1. Existing Roads:**

Refer to Topo Map A for directions to the location.

Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

The existing road for the NBU #395 will be utilized. All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.

**2. Planned Access Roads:**

No new access road is proposed. Refer to Topo Map B for the location of the existing access road.

The upgraded and new portions of the access road will be crowned and ditched with a running surface of 18 feet and a maximum disturbed width of 30 feet. Appropriate water control will be installed to control erosion.

*Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities were determined at the on-site.*

Surfacing material may be necessary, depending upon weather conditions.

Surface disturbance and vehicular traffic will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.

**3. Location of Existing Wells Within a 1-Mile Radius:**

Please refer to Topo Map C.

**4. Location of Existing & Proposed Facilities:**

*The following guidelines will apply if the well is productive.*

All production facilities will be located on the disturbed portion of the well pad and at a minimum of 25 feet from the toe of the back slope or the top of the fill slope.

A dike will be constructed completely around those production facilities which contain fluids (i.e., production tanks, produced water tanks, and/or heater/treater). These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank, and be independent of the back cut.

All permanent (on-site six months or longer) above the ground structures constructed or

installed, including pumping units, will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the five state Rocky Mountain Inter-Agency Committee.

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The required color is Carlsbad Canyon, standard color number 2.5Y 6/2.

Any necessary pits will be properly fenced to protect livestock and prevent wildlife entry.

**No new pipeline utilizing the existing NBU #395 pipeline. No TOPO D attached.**

**5. Location and Type of Water Supply:**

Water for drilling purposes will be obtained from Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32, T4S, R3E, Water User Claim #43-8496, Application #53617.

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

**6. Source of Construction Materials:**

Surface and subsoil materials in the immediate area will be utilized.

Any gravel will be obtained from a commercial source.

**7. Methods of Handling Waste Materials:**

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including salts and chemicals, will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be removed and disposed of at an approved waste disposal facility within 120 days after drilling is terminated.

The reserve pit will be constructed on the location and will not be located within natural drainage, where a flood hazard exists or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not leak, break, or allow discharge of liquids.

A plastic reinforced liner and felt will be used, it will be a minimum of 20 mil thick, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the liner will be disposed of in the pit.

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

A chemical porta-toilet will be furnished with the drilling rig.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. No trash will be burned on location.

All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

Any produced water from the proposed well will be contained in a water tank and will then be hauled By truck to one of the pre-approved disposal sites: RNI, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S, R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E. CIGE 112D SWD – SESE, SECTION 19, T9S, R21E, NBU 47N2 SWD – SESW, SECTION 30, T10S, R22E, NBU 159 SWD – NESW, SECTION 35, T9S, R21E, NBU 347 – NWSW, SECTION 11, T10S, R22E, Ouray #1 SWD – NENE SECTION 1, T9S, R21E, Pipeline Facility Sec. 36, T9S, R20E, Goat Pasture Evaporation Pond SW/4 Sec. 16, T10S, R22E, Bonanza Evaporation Pond Sec. 2, T10S, R23E

8. **Ancillary Facilities:**

None are anticipated.

9. **Well Site Layout:** (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

The reserve pit will be lined, and when the reserve pit is closed, the pit liner will be buried below plow depth.

All pits will be fenced according to the following minimum standards:

39 inch net wire will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.

The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.

Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.

Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

The reserve pit fencing will be on three sides during drilling operations, and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

Location size may change prior to the drilling of the well due to current rig availability. If the proposed location is not large enough to accommodate the drilling rig the location will be re-surveyed and a Form 9 shall be submitted.

**10. Plans for Reclamation of the Surface:**

*Producing Location:*

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production.

Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.

A plastic, nylon reinforced liner will be used, it shall be torn and perforated before backfilling of the reserve pit.

Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 90 days from the date of well completion, weather permitting.

To prevent surface water (s) from standing (ponding) on the reclaimed reserve pit area, final reclamation of the reserve pit will consist of "mounding" the surface three feet above surrounding ground surface to allow the reclaimed pit area to drain effectively.

Upon completion of backfilling, leveling, and recontouring, the stockpiled topsoil will be spread evenly over the reclaimed area(s).

*Dry Hole/Abandoned Location:*

Abandoned well sites, roads, and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions, and re-establishment of vegetation as specified.

All disturbed surfaces will be recontoured to the approximate natural contours, with reclamation of the well pad and access road to be performed as soon as practical after final abandonment. Reseeding operations will be performed after completion of other reclamation operations.

**11. Surface/Mineral Ownership:**

SITLA  
675 East 500 South, Suite 500  
Salt Lake City, UT 84102

**12. Other Information:**

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, the approved Plan of Operations, and any applicable Notice of Lessees. The Operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

The Operator will control noxious weeds along Rights-Of-Way for roads, pipelines, well sites, or other applicable facilities.

A Class III archaeological survey has been completed and will be submitted.

This location is not within 460' from the boundary of the Natural Buttes Unit, nor is it Within 460' of any non-committed tract lying within the boundaries of the Unit.

**13. Lessee's or Operators's Representative & Certification:**

Kevin McIntyre  
Regulatory Analyst  
Kerr-McGee Oil & Gas Onshore LP  
PO BOX 173779  
Denver, CO 80217-3779  
(720) 929-6226

Randy Bayne  
Drilling Manager  
Kerr-McGee Oil & Gas Onshore LP  
1368 South 1200 East  
Vernal, UT 84078  
(435)781-7018

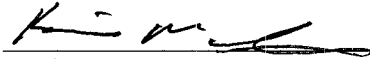
Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by State Surety Bond #RLB0005237.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.



Kevin McIntyre  
Regulatory Analyst

6/30/2008

Date



# KERR-McGEE OIL & GAS ONSHORE LP

## DRILLING PROGRAM

COMPANY NAME KERR-McGEE OIL & GAS ONSHORE LP DATE June 30, 2008  
 WELL NAME NBU 921-27MT TD 9,300' MD/TVD  
 FIELD Natural Buttes COUNTY Uintah STATE Utah ELEVATION 4,974' GL KB 4,989'  
 SURFACE LOCATION SWSW 634' FSL & 931' FWL, Sec. 27, T 9S R 21E BHL Straight Hole  
 Latitude: 40.001547 Longitude: -109.543244 NAD 27  
 OBJECTIVE ZONE(S) Wasatch/Mesaverde  
 ADDITIONAL INFO Regulatory Agencies: UDOGM (SURF & MINERALS), BLM, Tri-County Health Dept.

GEOLOGICAL FORMATION			MECHANICAL		
LOGS	TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'		14"	
			12-1/4"	9-5/8", 36#, J-55, LTC	Air mist
Catch water sample, if possible, from 0 to 4,821'					
	Green River @	1,498'			
	Top of Birds Nest Water @	1,802'			
	Mahogany @	2,291'			
	Preset f/ GL @				
	2,350' MD				
Note: 12.25" surface hole will usually be drilled ±400' below the bottom of lost circulation zone. Drilled depth may be ±200' of the estimated set depth depending on the actual depth of the loss zone.					
Mud logging program TBD					
Open hole logging program f/ TD - surf csg					
	Wasatch @	4,821'	7-7/8"	4-1/2", 11.6#, I-80 or equivalent LTC casing	Water/Fresh Water Mud 8.3-11.5 ppg
	Mverde @	7,653'			
	MVU2 @	8,624'			
	MVL1 @	9,210'			
	TD @	9,300'			Max anticipated Mud required 11.8 ppg



### CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
						3520	2020	453000
SURFACE	9-5/8"	0 to 2,350'	36.00	J-55	LTC	0.96	1.84	6.11
						7780	6350	201000
PRODUCTION	4-1/2"	0 to 9300	11.60	I-80	LTC	2.13	1.11	2.13

- 1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))
- 2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft-partial evac gradient x TD)
- (Burst Assumptions: TD = 11.8 ppg) .22 psi/ft = gradient for partially evac wellbore
- (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing\*Buoy.Fact. of water)
- MASP 3720 psi

### CEMENT PROGRAM

		FT OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18
Option 1	TOP OUT CMT (1)	250	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	100		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE			<b>NOTE: If well will circulate water to surface, option 2 will be utilized</b>				
Option 2	LEAD	2000	Prem cmt + 16% Gel + 10 pps gilsonite + .25 pps Flocele + 3% salt BWOC	230	35%	11.00	3.82
	TAIL	500	Premium cmt + 2% CaCl + .25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	4,320'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	470	60%	11.00	3.38
	TAIL	4,980'	50/50 Poz/G + 10% salt + 2% gel + .1% R-3	1390	60%	14.30	1.31

\*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

\*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

### FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

### ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

Brad Laney

DATE: \_\_\_\_\_

DRILLING SUPERINTENDENT:

Randy Bayne

NBU 921-27MT.xls

DATE: \_\_\_\_\_

# Kerr-McGee Oil & Gas Onshore LP

NBU #921-27MT

SECTION 27, T9S, R21E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 6.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 5.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 2.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN SOUTHEASTERLY DIRECTION APPROXIMATELY 0.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN SOUTHWESTERLY, THEN WESTERLY DIRECTION APPROXIMATELY 0.4 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN RIGHT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 46.7 MILES.

# KERR-MCGEE OIL & GAS ONSHORE LP

NBU #921-27MT

LOCATED IN UINTAH COUNTY, UTAH

SECTION 27, T9S, R21E, S.L.B.&M.

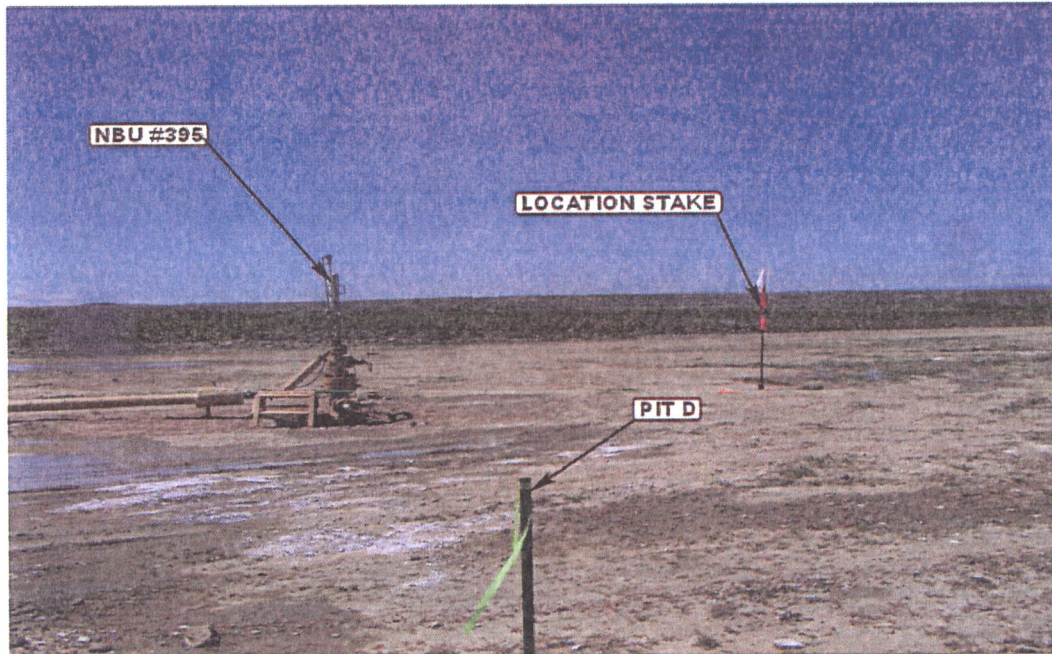


PHOTO: VIEW FROM PIT D TO LOCATION STAKE

CAMERA ANGLE: SOUTHWESTERLY



PHOTO: VIEW OF EXISTING ACCESS

CAMERA ANGLE: NORTHWESTERLY



- Since 1964 -

UELS

Uintah Engineering & Land Surveying

85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS

06 12 08  
MONTH DAY YEAR

PHOTO

TAKEN BY: L.K.

DRAWN BY: J.J.

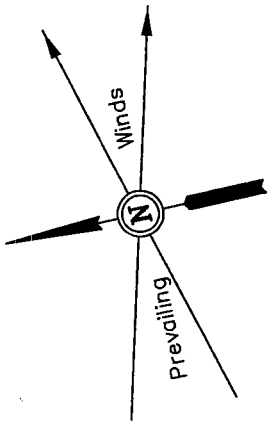
REVISED: 00-00-00

# Kerr-McGee Oil & Gas Onshore LP

FIGURE #1

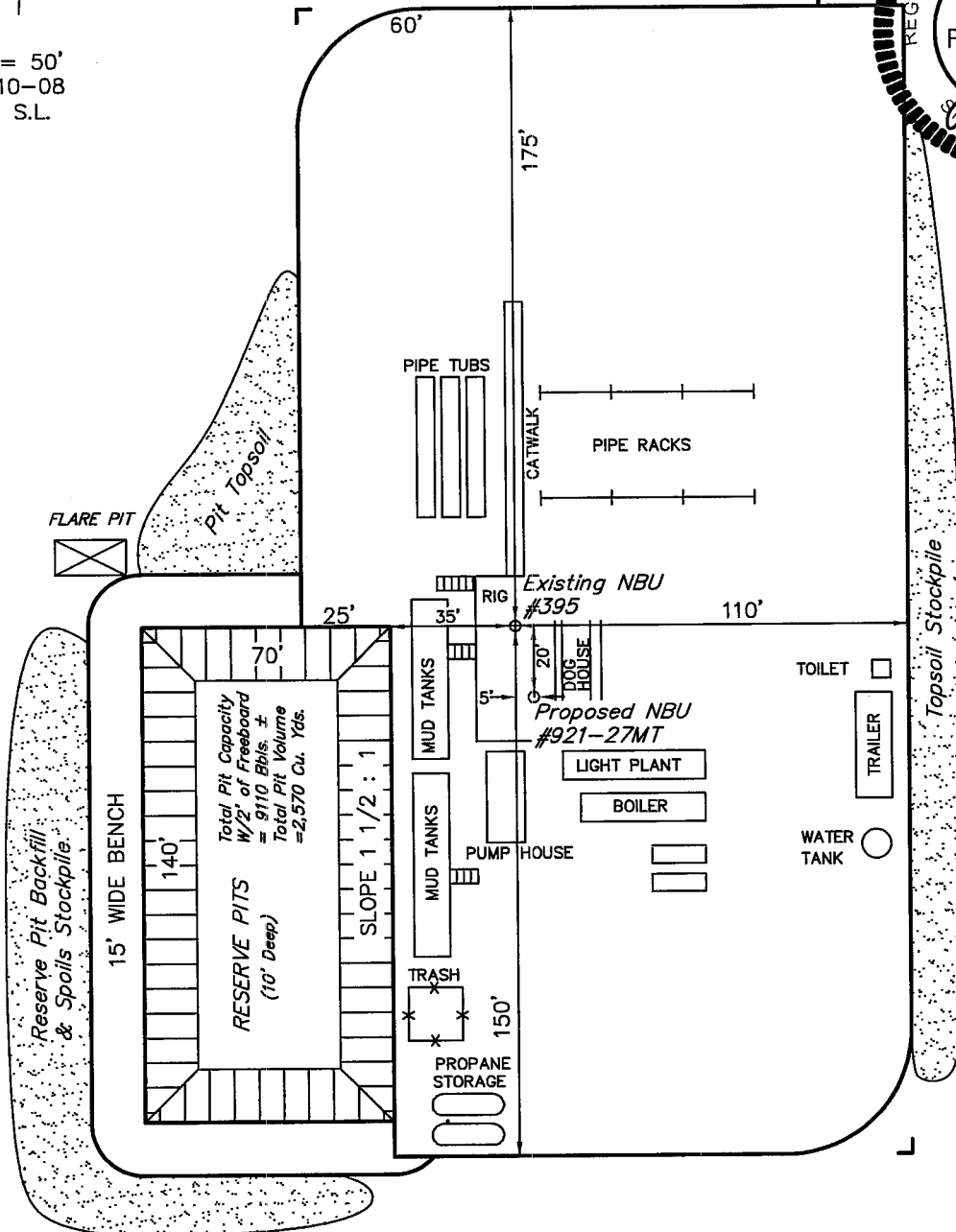
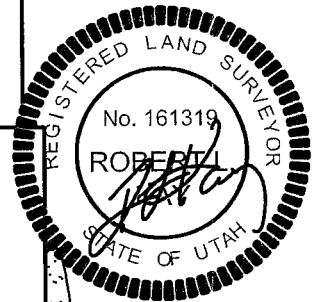
## LOCATION LAYOUT FOR

NBU #921-27MT  
SECTION 27, T9S, R21E, S.L.B.&M.  
634' FSL 931' FWL



Existing Access Road

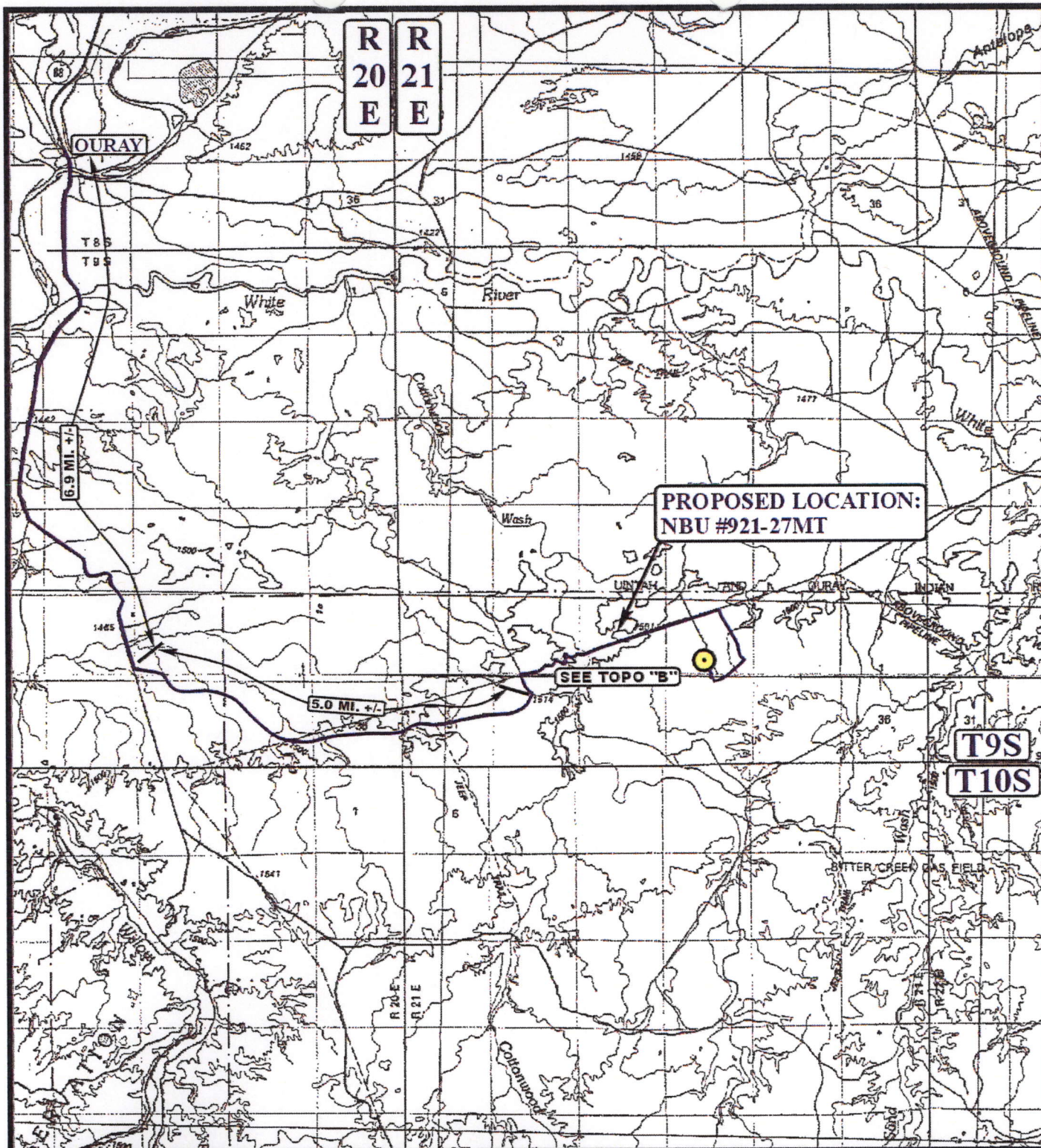
SCALE: 1" = 50'  
DATE: 06-10-08  
Drawn By: S.L.




### NOTES:

FINISHED GRADE ELEV. AT LOC. STAKE = 4973.7'

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah, 84078 \* (435) 789-1017



# **LEGEND:**

 PROPOSED LOCATION

N

Kerr-McGee Oil & Gas Onshore LP

NBU #921-27MT

SECTION 27, T9S, R21E, S.L.B.&M.

634' FSL 931' FWL



Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC  
MAP**

**06 11 08**  
MONTH DAY YEAR

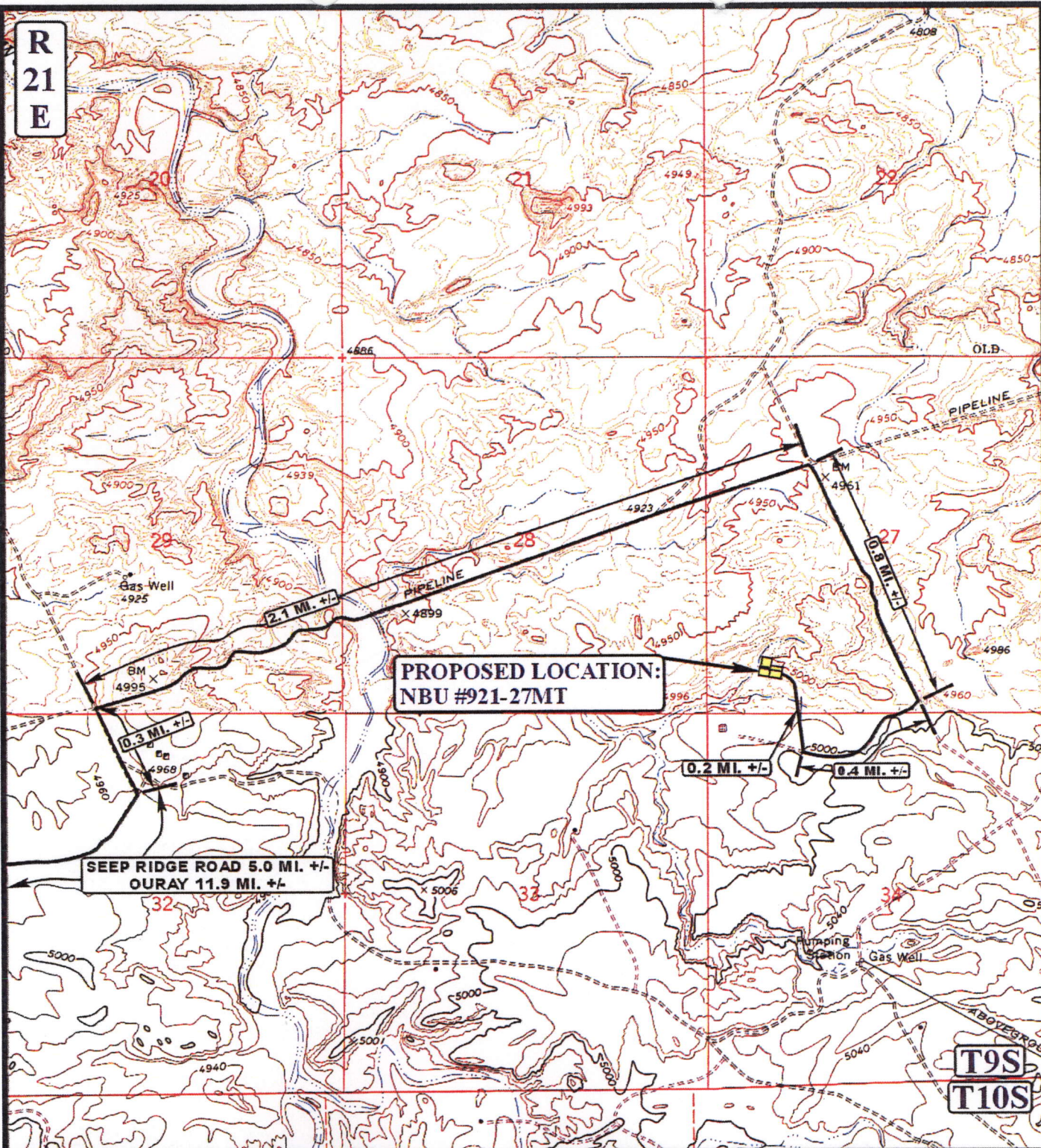
SCALE: 1:100,000

DRAWN BY: J.J.

REVISED: 00-00-00



R  
21  
E



**LEGEND:**

----- PROPOSED ACCESS ROAD  
————— EXISTING ROAD

N

Kerr-McGee Oil & Gas Onshore LP

NBU #921-27MT

SECTION 27, T9S, R21E, S.L.B.&M.

634' FSL 931' FWL



Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

TOPOGRAPHIC  
MAP

06 11 08  
MONTH DAY YEAR

SCALE: 1" = 2000'

DRAWN BY: J.J.

REVISED: 00-00-00

B  
TOPO

**PROPOSED LOCATION:**  
**NBU #921-27MT**



- 

NBU #921-27MT  
SECTION 27, T9S, R21E, S.L.B.&M.  
634' FSL 931' FWL

**Utah Engineering & Land Surveying**  
**85 South 200 East Vernal, Utah 84078**  
**(435) 789-1017 \* FAX (435) 789-1813**

C  
TOPO

REVISÉD: 00-00-00

**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 07/03/2008

API NO. ASSIGNED: 43-047-40171

WELL NAME: NBU 921-27MT

OPERATOR: KERR-MCGEE OIL & GAS ( N2995 )

PHONE NUMBER: 720-929-622

CONTACT: KEVIN MCINTYRE

**PROPOSED LOCATION:**

SWSW 27 090S 210E

SURFACE: 0634 FSL 0931 FWL

BOTTOM: 0634 FSL 0931 FWL

COUNTY: UINTAH

LATITUDE: 40.00149 LONGITUDE: -109.5432

UTM SURF EASTINGS: 624355 NORTHINGS: 4428728

FIELD NAME: NATURAL BUTTES ( 630 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	DVED	8/28/08
Geology		
Surface		

LEASE TYPE: 3 - State

LEASE NUMBER: ST UO 1194A

SURFACE OWNER: 3 - State

PROPOSED FORMATION: WSMVD

COALBED METHANE WELL? NO

**RECEIVED AND/OR REVIEWED:**

☒ Plat

☒ Bond: Fed[] Ind[] Sta[] Fee[]  
(No. 22013542 )

N Potash (Y/N)

☒ Oil Shale 190-5 (B) or 190-3 or 190-13

☒ Water Permit  
(No. 43-8496 )

N RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )

NA Fee Surf Agreement (Y/N)

NA Intent to Commingle (Y/N)

**LOCATION AND SITING:**

       R649-2-3.

Unit: NATURAL BUTTES

       R649-3-2. General

Siting: 460 From Qtr/Qtr & 920' Between Wells

       R649-3-3. Exception

☒ Drilling Unit

Board Cause No: 173-14

Eff Date: 12-2-1999

Siting: 460' fr u b d r g ? uncomm tract

       R649-3-11. Directional Drill

**COMMENTS:**

Needs Permit (06-18-08)

**STIPULATIONS:**

1 - STATEMENT OF BASIS

2 - OIL SHALE

3 - Surface Csg Cont stop



# Application for Permit to Drill

## Statement of Basis

8/12/2008

Utah Division of Oil, Gas and Mining

Page 1

<b>APD No</b>	<b>API WellNo</b>	<b>Status</b>	<b>Well Type</b>	<b>Surf Ownr</b>	<b>CBM</b>
865	43-047-40171-00-00		GW	S	No
<b>Operator</b>	KERR-MCGEE OIL & GAS ONSHORE, L.P. <b>Surface Owner-APD</b>				
<b>Well Name</b>	NBU 921-27MT	<b>Unit</b>	NATURAL BUTTES		
<b>Field</b>	NATURAL BUTTES		<b>Type of Work</b>		
<b>Location</b>	SWSW 27 9S 21E S 634 FSL 931 FWL GPS Coord (UTM) 624355E 4428728N				

### Geologic Statement of Basis

Kerr McGee proposes to set 2,350' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 2,000'. A search of Division of Water Rights records shows one water wells within a 10,000 foot radius of the center of Section 27. The well is listed as 200 feet deep and used for drilling water. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The proposed casing and cement should adequately protect. Any usable ground water.

Brad Hill

8/11/2008

**APD Evaluator**

**Date / Time**

### Surface Statement of Basis

The proposed NBU 921-27MT gas well is on the existing location of the NBU 395 gas well. This well is planned to be plugged. A reserve pit 70' x 140' x 10' deep will be re-dug in the northwest corner of the location. The existing pad appears to be stable and should present no problems for drilling and operating the proposed well.

Floyd Bartlett

6/18/2008

**Onsite Evaluator**

**Date / Time**

### Conditions of Approval / Application for Permit to Drill

<b>Category</b>	<b>Condition</b>
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

# **ON-SITE PREDRILL EVALUATION**

## **Utah Division of Oil, Gas and Mining**

**Operator** KERR-MCGEE OIL & GAS ONSHORE, L.P.  
**Well Name** NBU 921-27MT  
**API Number** 43-047-40171-0 **APD No** 865 **Field/Unit** NATURAL BUTTES  
**Location: 1/4,1/4 SWSW** **Sec** 27 **Tw** 9S **Rng** 21E 634 FSL 931 FWL  
**GPS Coord (UTM)** 624350 4428734 **Surface Owner**

### **Participants**

Floyd Bartlett and David Hackford (DOGM), Jim Davis (SITLA), Raleen White, Kevin McIntyre, Clay Einerson and Tony Kzneck (Kerr McGee) and David Kay (Uintah Engineering and Land Surveying).

### **Regional/Local Setting & Topography**

The proposed NBU 921-27MT gas well is on the existing location of the NBU 395 gas well. This well is planned to be plugged. A reserve pit 70' x 140' x 10' deep will be re-dug in the northwest corner of the location. The existing pad appears to be stable and should present no problems for drilling and operating the proposed well.

### **Surface Use Plan**

#### **Current Surface Use**

Existing Well Pad

#### **New Road**

Miles	Well Pad Width	Length	Src Const Material	Surface Formation
-------	-------------------	--------	--------------------	-------------------

#### **Ancillary Facilities**

### **Waste Management Plan Adequate?**

### **Environmental Parameters**

#### **Affected Floodplains and/or Wetland**

#### **Flora / Fauna**

Existing Well Pad

#### **Soil Type and Characteristics**

#### **Erosion Issues**

#### **Sedimentation Issues**

#### **Site Stability Issues**

#### **Drainage Diversion Required**

#### **Berm Required?**

#### **Erosion Sedimentation Control Required?**

Paleo Survey Run?	Paleo Potential Observed?	Cultural Survey Run?	Cultural Resources?
-------------------	---------------------------	----------------------	---------------------

## Reserve Pit

Site-Specific Factors		Site Ranking
Distance to Groundwater (feet)	>200	0
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	<300	20
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)	<10	0
Affected Populations	<10	0
Presence Nearby Utility Conduits	Not Present	0
Final Score		35
		1
		Sensitivity Level

### Characteristics / Requirements

A reserve pit 70' x 140' x 10' deep will be re-dug in the northwest corner of the location.

Closed Loop Mud Required? N    Liner Required?    Liner Thickness 16    Pit Underlayment Required? Y

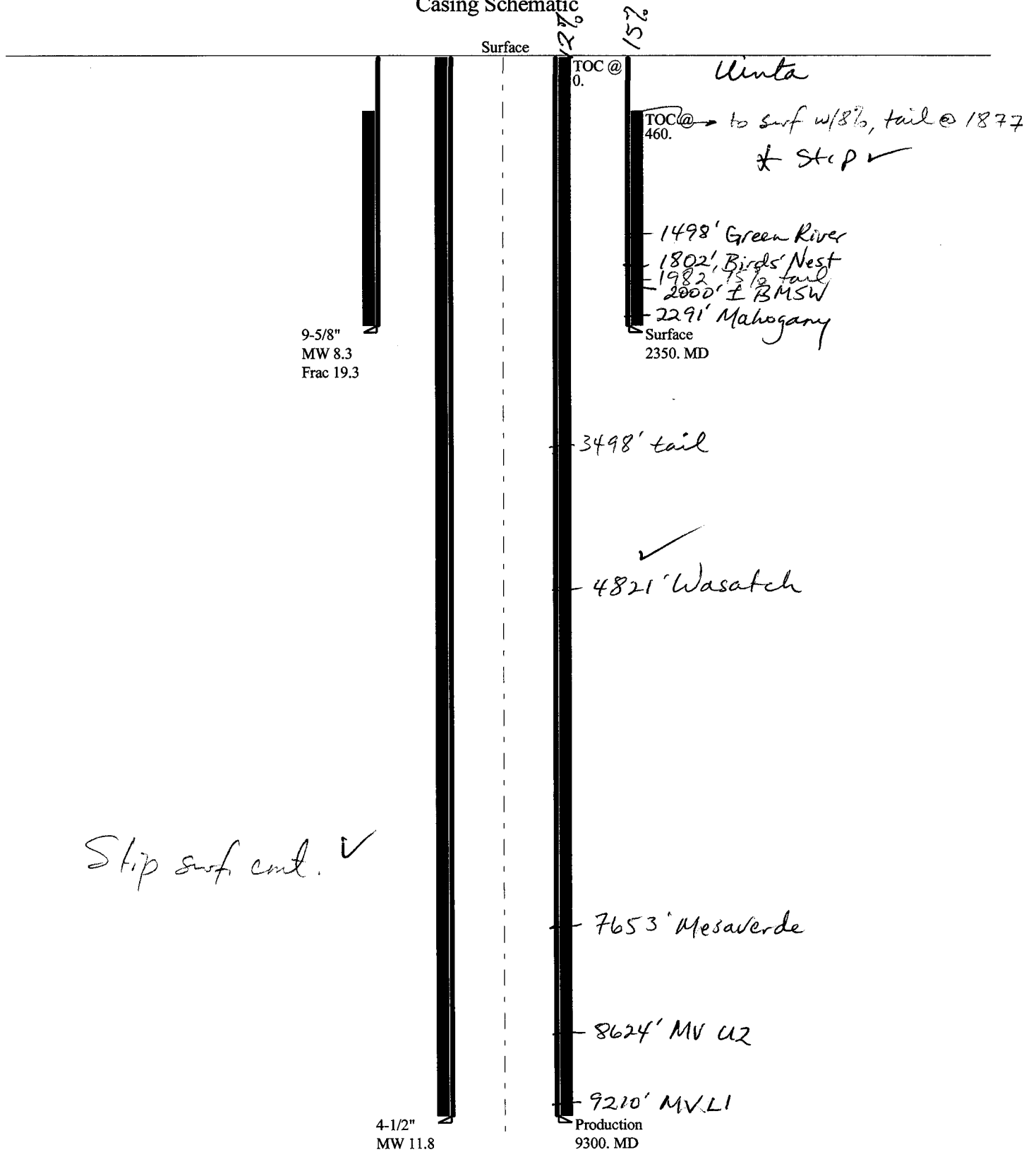
### Other Observations / Comments

Floyd Bartlett  
Evaluator

6/18/2008  
Date / Time

43047401710000 NBU 921-27MT

Casing Schematic



Well name:

**43047401710000 NBU 921-27MT**Operator: **Kerr McGee Oil & Gas Onshore L.P.**String type: **Surface**

Project ID:

**43-047-40171-0000**Location: **Uintah County, Utah****Design parameters:****Collapse**

Mud weight: 8.330 ppg

Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No

Surface temperature: 75 °F

Bottom hole temperature: 108 °F

Temperature gradient: 1.40 °F/100ft

Minimum section length: 1,300 ft

Cement top: 460 ft

**Burst**

Max anticipated surface pressure:

2,068 psi

Internal gradient: 0.120 psi/ft

Calculated BHP 2,350 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)

8 Round LTC: 1.80 (J)

Buttress: 1.60 (J)

Premium: 1.50 (J)

Body yield: 1.50 (B)

Tension is based on buoyed weight.

Neutral point: 2,060 ft

Completion type is subs

**Non-directional string.****Re subsequent strings:**

Next setting depth: 9,300 ft

Next mud weight: 11.800 ppg

Next setting BHP: 5,701 psi

Fracture mud wt: 19.250 ppg

Fracture depth: 2,350 ft

Injection pressure: 2,350 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	2350	9.625	36.00	J-55	LT&C	2350	2350	8.796	1020.1
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	1017	2020	1.986	2350	3520	1.50	74	453	6.11 J

Prepared Helen Sadik-Macdonald  
by: Div of Oil, Gas & MineralsPhone: (801) 538-5357  
FAX: (801) 359-3940Date: August 19, 2008  
Salt Lake City, Utah**Remarks:**

Collapse is based on a vertical depth of 2350 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop &amp; Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

Well name:	<b>43047401710000 NBU 921-27MT</b>	
Operator:	<b>Kerr McGee Oil &amp; Gas Onshore L.P.</b>	
String type:	Production	Project ID: 43-047-40171-0000
Location:	Uintah County, Utah	

**Design parameters:**

**Collapse**

Mud weight: 11.800 ppg  
Internal fluid density: 2.300 ppg

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 205 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,500 ft

Cement top: Surface

**Burst**

Max anticipated surface pressure: 3,655 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 5,701 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Tension is based on air weight.  
Neutral point: 7,659 ft

Completion type is subs  
**Non-directional string.**

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	9300	4.5	11.60	I-80	LT&C	9300	9300	3.875	811.6
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	4590	6360	1.386	5701	7780	1.36	108	212	1.97 J

Prepared Helen Sadik-Macdonald  
by: Div of Oil, Gas & Minerals

Phone: (801) 538-5357  
FAX: (801) 359-3940

Date: August 19, 2008  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 9300 ft, a mud weight of 11.8 ppg. An internal gradient of .119 psi/ft was used for collapse from TD. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

Well name:

**43047401710000 NBU 921-27MT**Operator: **Kerr McGee Oil & Gas Onshore L.P.**String type: **Production**

Project ID:

**43-047-40171-0000**Location: **Uintah County, Utah****Design parameters:****Collapse**

Mud weight: 11.800 ppg  
Internal fluid density: 2.300 ppg

**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 205 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,500 ft

Cement top: Surface

**Burst**

Max anticipated surface pressure: 3,655 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 5,701 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Completion type is subs  
**Non-directional string.**

Tension is based on buoyed weight.  
Neutral point: 7,660 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft <sup>3</sup> )
1	9300	4.5	11.60	I-80	LT&C	9300	9300	3.875	811.6
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	4590	6360	1.386	5701	7780	1.36	89	212	2.39 J

Prepared Helen Sadik-Macdonald  
by: Div of Oil, Gas & Minerals

Phone: (801) 538-5357  
FAX: (801) 359-3940

Date: August 19, 2008  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 9300 ft, a mud weight of 11.8 ppg. An internal gradient of .119 psi/ft was used for collapse from TD. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

# BOPE REVIEW

Kerr-McGee NBU 921-27MT API 43-047-40171-0000

## INPUT

Well Name

Kerr-McGee NBU 921-27MT API 43-047-40171-0000			
String 1	String 2		
9 5/8	4 1/2		
2350	9300		
40	2350		
8.4	11.8	✓	
500	5000		
3520	7780		
5766	11.9 ppg	✓	

## Calculations

		String 1	9 5/8 "	
Max BHP [psi]		.052*Setting Depth*MW =	1026	
BOPE Adequate For Drilling And Setting Casing at Depth?				
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	744	NO	Air Drill to surface shoe with diverter
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	509	NO	
*Can Full Expected Pressure Be Held At Previous Shoe?				
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth) =	518	NO	Expected pressures - Birds nest LC possible
Required Casing/BOPE Test Pressure		2350 psi		
*Max Pressure Allowed @ Previous Casing Shoe =		40 psi		*Assumes 1psi/ft frac gradient

## Calculations

		String 2	4 1/2 "	
Max BHP [psi]		.052*Setting Depth*MW =	5706	
BOPE Adequate For Drilling And Setting Casing at Depth?				
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	4590	YES	✓
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	3660	YES	
*Can Full Expected Pressure Be Held At Previous Shoe?				
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth) =	4177	NO	Reasonable
Required Casing/BOPE Test Pressure		5000 psi		
*Max Pressure Allowed @ Previous Casing Shoe =		2350 psi		*Assumes 1psi/ft frac gradient

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:  
3160  
(UT-922)

July 15, 2008

### Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2008 Plan of Development Natural Buttes Unit  
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2008 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
-------	-----------	----------

(Proposed PZ Wasatch/MesaVerde)

43-047-40184	NBU 921-30FT	Sec 30 T09S R21E 1585 FNL 2614 FWL
43-047-40185	NBU 921-31BT	Sec 31 T09S R21E 0670 FNL 2008 FEL
43-047-40170	NBU 921-27KT	Sec 27 T09S R21E 1527 FSL 1821 FWL
43-047-40171	NBU 921-27MT	Sec 27 T09S R21E 0634 FSL 0931 FWL
43-047-40172	NBU 921-27OT	Sec 27 T09S R21E 0646 FSL 2211 FEL
43-047-40173	NBU 921-27HT	Sec 27 T09S R21E 2025 FNL 0623 FEL
43-047-40174	NBU 921-27LT	Sec 27 T09S R21E 1954 FSL 0641 FWL
43-047-40175	NBU 921-33K	Sec 33 T09S R21E 2066 FSL 1926 FWL
43-047-40227	NBU 921-27C2D	Sec 27 T09S R21E 0650 FNL 1730 FWL
43-047-40203	NBU 921-27D2DS	Sec 27 T09S R21E 0660 FNL 1713 FWL
	BHL	Sec 27 T09S R21E 0395 FNL 0350 FWL
43-047-40202	NBU 921-27D2AS	Sec 27 T09S R21E 0640 FNL 1747 FWL
	BHL	Sec 27 T09S R21E 0050 FNL 0350 FWL
43-047-40201	NBU 921-27C2AS	Sec 27 T09S R21E 0630 FNL 1765 FWL
	BHL	Sec 27 T09S R21E 0300 FNL 1730 FWL
43-047-40169	NBU 921-26IT	Sec 26 T09S R21E 1964 FSL 0674 FEL
43-047-40176	NBU 922-29NT	Sec 29 T09S R22E 0845 FSL 1627 FWL
43-047-40177	NBU 922-29KT	Sec 29 T09S R22E 1795 FSL 1936 FWL
43-047-40178	NBU 922-31BT	Sec 31 T09S R22E 0888 FNL 2191 FEL

43-047-40179	NBU 922-32ET	Sec 32	T09S R22E 2477 FNL 0094	FWL
43-047-40186	NBU 922-33OT	Sec 33	T09S R22E 0692 FSL 1465	FEL
43-047-40187	NBU 922-33NT	Sec 33	T09S R22E 0890 FSL 2291	FWL
43-047-40188	NBU 922-33IT	Sec 33	T09S R22E 2115 FSL 0579	FEL
43-047-40191	NBU 1022-04GT	Sec 04	T10S R22E 1897 FNL 1861	FEL
43-047-40189	NBU 922-35IT	Sec 35	T09S R22E 2133 FSL 0627	FEL
43-047-40190	NBU 1022-01CT	Sec 01	T10S R22E 0819 FNL 2106	FWL
43-047-40192	NBU 1022-08IT	Sec 08	T10S R22E 1757 FSL 0323	FEL
43-047-40193	NBU 1022-08GT	Sec 08	T10S R22E 2313 FNL 1922	FEL
43-047-40194	NBU 1022-09AT	Sec 09	T10S R22E 0472 FNL 0582	FEL
43-047-40195	NBU 1022-10HT	Sec 10	T10S R22E 1798 FNL 0297	FEL
43-047-40196	NBU 1022-10FT	Sec 10	T10S R22E 2200 FNL 2094	FWL
43-047-40204	NBU 1022-32D1S	Sec 32	T10S R22E 0205 FNL 2058	FWL
	BHL	Sec 32	T10S R22E 0270 FNL 1310	FWL
43-047-40205	NBU 1022-32D4AS	Sec 32	T10S R22E 0198 FNL 2077	FWL
	BHL	Sec 32	T10S R22E 0760 FNL 1180	FWL
43-047-40206	NBU 1022-32B3S	Sec 32	T10S R22E 0185 FNL 2114	FWL
	BHL	Sec 32	T10S R22E 1150 FNL 2130	FEL
43-047-40207	NBU 1022-32D4DS	Sec 32	T10S R22E 0192 FNL 2096	FWL
	BHL	Sec 32	T10S R22E 1240 FNL 1050	FWL

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File - Natural Buttes Unit  
 Division of Oil Gas and Mining  
 Central Files  
 Agr. Sec. Chron  
 Fluid Chron

MCoulthard:mc:7-15-08

**From:** Jim Davis  
**To:** Bonner, Ed; Mason, Diana; Raleen.White@anadarko.com  
**Date:** 8/7/2008 11:04 AM  
**Subject:** Kerr McGee Approvals

The following wells have been granted approval by the trust lands Administration, including arch and paleo clearance.

4304740169	NBU 921-26IT	Kerr-McGee Oil & Gas	Natural Buttes	NESE	26	090S	210E
4304740170	NBU 921-27KT	Kerr-McGee Oil & Gas	Natural Buttes	NESW	27	090S	210E
4304740171	NBU 921-27MT	Kerr-McGee Oil & Gas	Natural Buttes	SWSW	27	090S	210E
4304740172	NBU 921-27OT	Kerr-McGee Oil & Gas	Natural Buttes	SWSE	27	090S	210E
4304740173	NBU 921-27HT	Kerr-McGee Oil & Gas	Natural Buttes	SENE	27	090S	210E
4304740174	NBU 921-27LT	Kerr-McGee Oil & Gas	Natural Buttes	NWSW	27	090S	210E
4304740176	NBU 922-29NT	Kerr-McGee Oil & Gas	Natural Buttes	SESW	29	090S	220E
4304740177	NBU 922-29KT	Kerr-McGee Oil & Gas	Natural Buttes	NESW	29	090S	220E
4304740178	NBU 922-31BT	Kerr-McGee Oil & Gas	Natural Buttes	NWNE	31	090S	220E
4304740179	NBU 922-32ET	Kerr-McGee Oil & Gas	Natural Buttes	SWNW	32	090S	220E
4304740114	NBU 921-35AT	Kerr-McGee Oil & Gas	Natural Buttes	NENE	35	090S	210E
4304740146	NBU 922-29LT	Kerr-McGee Oil & Gas	Natural Buttes	NWSW	29	090S	220E

-Jim

Jim Davis  
Utah Trust Lands Administration  
jimdavis1@utah.gov  
Phone: (801) 538-5156



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil Gas and Mining

JOHN R. BAZA  
Division Director

September 2, 2008

Kerr-McGee Oil & Gas Onshore, LP  
P O Box 173779  
Denver, CO 80217-3779

Re: NBU 921-27MT Well, 634' FSL, 931' FWL, SW SW, Sec. 27, T. 9 South, R. 21 East,  
Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-40171.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Uintah County Assessor  
SITLA  
Bureau of Land Management, Vernal Office

Operator: Kerr-McGee Oil & Gas Onshore, LP  
Well Name & Number NBU 921-27MT  
API Number: 43-047-40171  
Lease: ST UO 1194A

Location: SW SW                      Sec. 27                      T. 9 South                      R. 21 East

### Conditions of Approval

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### 2. Notification Requirements

The operator is required to notify the Division of Oil, Gas and Mining of the following action during drilling of this well:

- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- 24 hours prior to testing blowout prevention equipment – contact Dan Jarvis
- 24 hours prior to spudding the well – contact Carol Daniels
- Within 24 hours of any emergency changes made to the approved drilling program – contact Dustin Doucet
- Prior to commencing operations to plug and abandon the well – contact Dan Jarvis

The operator is required to get approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:

- Plugging and abandonment or significant plug back of this well – contact Dustin Doucet
- Any changes to the approved drilling plan – contact Dustin Doucet

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at:                      (801) 538-5338 office                      (801) 942-0871 home
- Carol Daniels at:                      (801) 538-5284 office
- Dustin Doucet at:                      (801) 538-5281 office                      (801) 733-0983 home

#### 3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.
5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)
6. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.
7. Surface casing shall be cemented to the surface.

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR MCGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995  
Address: 1368 SOUTH 1200 EAST  
city VERNAL  
state UT zip 84078 Phone Number: (435) 781-7024

Well 1

API Number	Well Name	QQ	Sec	Twp	Rng	County
4304740171	NBU 921-27MT	SWSW	27	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date		
<u>B</u>	99999	<u>2900</u>	11/9/2008	<u>11/25/08</u>		
<b>Comments:</b> MIRU PETE MARTIN BUCKET RIG. <u>W57MVD</u> SPUD WELL LOCATION ON 11/9/2008 AT 1200 HRS.						

Well 2

API Number	Well Name	QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date		
<b>Comments:</b>						

Well 3

API Number	Well Name	QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date		
<b>Comments:</b>						

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

SHEILA UPCHEGO

Name (Please Print)

Signature

REGULATORY ANALYST

Title

11/10/2008

Date

(5/2000)

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DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: ST UO 1194A
2. NAME OF OPERATOR: KERR McGEE OIL & GAS ONSHORE LP		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078		7. UNIT or CA AGREEMENT NAME: 891008900A
PHONE NUMBER: (435) 781-7024		8. WELL NAME and NUMBER: NBU 921-27MT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 634' FSL, 931' FWL		9. API NUMBER: 4304740171
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 27 9S 21E		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES FIELD

COUNTY: UINTAH

STATE: UTAH

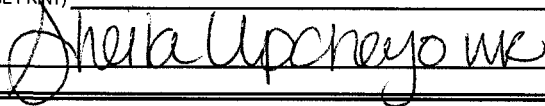
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: WELL SPUD
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX.

SPUD WELL LOCATION ON 11/9/2008 AT 1200 HRS.

NAME (PLEASE PRINT) SHEILA UPCHEGO	TITLE REGULATORY ANALYST
SIGNATURE 	DATE 11/10/2008

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DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: ST UO-1194A
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE LP		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078		7. UNIT or CA AGREEMENT NAME: UNIT #891008900A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 634°FSL, 931°FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 27 29 9S, 21E		8. WELL NAME and NUMBER: NBU 921-27MT
PHONE NUMBER: (435) 781-7024		9. API NUMBER: 4304740171
		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
		COUNTY: UINTAH
		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: SET SURFACE CSG
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU PROPETRO AIR RIG ON 12/07/2008. DRILLED 12 1/4" SURFACE HOLE TO 2500'. RAN 9 5/8" 36# J-55 SURFACE CSG. LEAD CMT W/225 SX HIFILL CLASS G @11.0 PPG 3.82 YIELD. TAILED CMT W/200 SX PREM CLASS G @15.8 PPG 1.15 YIELD. GOOD RETURNS THROUGH OUT JOB 25 +/- BBL LEAD CMT TO PIT. RAN 200' OF 1" PIPE. CMT W/150 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN 1" PIPE. TOP OUT W/150 SX PREM CLAS G @15.8 PPG 1.15 YIELD DOWN BACKSIDE GOOD CMT TO SURFACE HOLE STAYED FULL.

WORT.

NAME (PLEASE PRINT) SHEILA UPCHEGO	TITLE REGULATORY ANALYST
SIGNATURE <i>Sheila Upchego</i>	DATE 12/16/2008

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DIV. OF OIL, GAS & MINING

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.


1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: ST UO-1194A
2. NAME OF OPERATOR: KERR McGEE OIL & GAS ONSHORE LP		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078		7. UNIT or CA AGREEMENT NAME: UNIT #891008900A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 634'FSL, 931'FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW <sup>27</sup> <del>28</del> 9S, 21E		8. WELL NAME and NUMBER: NBU 921-27MT
PHONE NUMBER: (435) 781-7024		9. API NUMBER: 4304740171
COUNTY: UINTAH		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: FINAL DRILLING OPERATIONS
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

FINISHED DRILLING FROM 2500' TO 9880' ON 02/16/2009. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. LEAD CMT W/632 SX PREM LITE II @12.5 PPG 2.04 YIELD. TAILED CMT W/1423 SX 50/50 POZ @14.3 PPG 1.31 YIELD. DISPLACE W/153 BBLS CLAYTREAT WATER BUMP PLUG @3615 PSI FLOATS HELD 3120 PSI LIFT NO CMT TO SURFACE FULL RETURNS THROUGH OUT JOB PACK OFF & TEST HANGER TO 5000 PSI NIPPLE DOWN CLEAN PITS.

RELEASED PIONEER RIG 69 ON 02/20/2009 AT 2000 HRS.

NAME (PLEASE PRINT) SHEILA UPCHEGO	TITLE REGULATORY ANALYST
SIGNATURE 	DATE 2/24/2009

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DIV. OF OIL, GAS & MINING

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ST UO 1194A
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 921-27MT
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0634 FSL 0931 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 27 Township: 09.0S Range: 21.0E Meridian: S		<b>9. API NUMBER:</b> 43047401710000
<b>PHONE NUMBER:</b> 720 929-6587 Ext		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> <b>ACIDIZE</b>	
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> <b>ALTER CASING</b>	
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> <b>CASING REPAIR</b>	
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 5/9/2009	<input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b>	
	<input type="checkbox"/> <b>CHANGE TUBING</b>	
	<input type="checkbox"/> <b>CHANGE WELL STATUS</b>	
	<input type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b>	
	<input type="checkbox"/> <b>DEEPEN</b>	
	<input type="checkbox"/> <b>FRACTURE TREAT</b>	
	<input type="checkbox"/> <b>OPERATOR CHANGE</b>	
	<input type="checkbox"/> <b>PLUG AND ABANDON</b>	
	<input type="checkbox"/> <b>PRODUCTION START OR RESUME</b>	
	<input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b>	
	<input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b>	
	<input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b>	
	<input type="checkbox"/> <b>TUBING REPAIR</b>	
	<input type="checkbox"/> <b>VENT OR FLARE</b>	
	<input type="checkbox"/> <b>WATER SHUTOFF</b>	
	<input type="checkbox"/> <b>SI TA STATUS EXTENSION</b>	
	<input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>	
	<input type="checkbox"/> <b>OTHER:</b> _____	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b>  THE SUBJECT WELL LOCATION WAS PLACED ON PRODUCTION ON 05/09/2009 AT 10:00 AM. PLEASE REFER TO THE ATTACHED CHRONOLOGICAL WELL HISTORY.		
<b>Accepted by the</b> <b>Utah Division of</b> <b>Oil, Gas and Mining</b> <b>FOR RECORD ONLY</b> May 20, 2009		
<b>NAME (PLEASE PRINT)</b> Sheila Upchego	<b>PHONE NUMBER</b> 435 781-7024	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 5/20/2009	

# ROCKIES

## Operation Summary Report

Well: NBU 921-27MT			Spud Conductor: 11/9/2008			Spud Date: 12/7/2008			
Project: UTAH			Site: UINTAH				Rig Name No: PIONEER 69/69, PROPETRO/		
Event: DRILLING			Start Date: 12/7/2008				End Date: 2/20/2009		
Active Datum: RKB @4,992.00ft (above Mean Sea Level)				UWI: 0/9/S/21/E/27/0/SWSW/6/PM/S/634.00/W/0/931.00/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation	
12/7/2008	12:00 - 0:00	12.00	DRLSUR	02		P		MOVE IN AND RIG UP AIR RIG SPUD WELL @ 1200 HR 12/7/08 DA AT REPORT TIME 540'	
12/8/2008	0:00 - 12:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD NO WATER 1080'	
	12:00 - 0:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD NO WATER 1500'	
12/9/2008	0:00 - 4:00	4.00	DRLSUR	02		P		RIG DRILL TO 1560' RIG BROKE DOWN WAIT ON MECHANIC	
	4:00 - 22:00	18.00	DRLSUR	07		Z		WAS UNABLE TO FIX RIG 6 SWAP OUT RIG 6 FOR RIG 5	
12/10/2008	22:00 - 0:00	2.00	DRLSUR	05		P		TIH WITH TRI CONE AT REPORT TIME	
	0:00 - 12:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD NO WATER 1890'	
	12:00 - 0:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD NO WATER 2250'	
12/11/2008	0:00 - 12:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD NO WATER 2310'	
	12:00 - 20:00	8.00	DRLSUR	02		P		RIG T/D @ 2500' CONDITION HOLE 1 HR RUN SURVEY 2 DEG.	
12/12/2008	20:00 - 0:00	4.00	DRLSUR	05		P		TRIP DP OUT OF HOLE	
	0:00 - 4:30	4.50	DRLSUR	11		P		RUN 2469' OF 9 5/8 CSG AND 200' OF 1" PIPE AND RIG DOWN AIR RIG	
	4:30 - 5:30	1.00	DRLSUR	15		P		CEMENT 1ST STAGE WITH 225 SKS LEAD @ 11# 3.82 23 GAL SK AND 200 SKS TAIL @ 15.8# 1.15 5.0 GAL/SK GOOD RETURNS THRU OUT JOB + - 25 BBL LEAD CMT TO PIT	
	5:30 - 6:00	0.50	DRLSUR	15		P		1ST TOP JOB 150 SKS DOWN 1" PIPE GOOD CMT TO SURFACE AND FELL BACK WOC	
	6:00 - 8:00	2.00	DRLSUR	15		P		2ND TOP JOB 150 SKS DOWN BS GOOD CMT TO SURFACE AND STAYED AT SURFACE	
	8:00 - 8:00	0.00	DRLSUR					NO VISIBLE LEAKS PIT 30% FULL WORT	
2/4/2009	12:00 - 0:00	12.00	DRLPRO	01	E	P		RDRT PREPARE FOR MOVE	
2/5/2009	0:00 - 7:00	7.00	DRLPRO	01	E	P		RDRT, PREPARE TO MOVE TO THE NBU 922-27MT THIS AM	
	7:00 - 19:00	12.00	DRLPRO	01	A	P		MOVE RIG, 100 % MOVED	
	19:00 - 0:00	5.00	DRLPRO	01	B	P		RURT, SUB, SCOPED UP AND DRK AT HALF MAST AT 17:30 HRS	
2/6/2009	0:00 - 13:00	13.00	DRLPRO	01	B	P		SOPE DRK, RIG UP FLOOR, ELCTRICAL LINES, ECT, P/U KELLY AND VALVES,	
	13:00 - 17:00	4.00	DRLPRO	13	A	P		NIPPLE UP BOPE	
	17:00 - 21:30	4.50	DRLPRO	13	C	P		HELD SAFETY MTNG W/ TESTERS AND RIG CREW, TEST BOPE - KELLY & VALVES - HIGH = 5000 PSI, LOW = 250 PSI, - BLIND RAMS, PIPE RAMS, CHOKE VALVES, CHOKE MANIFOLD, KILL LINE - HIGH = 5000 PSI, LOW = 250 PSI, ANNULAR, HIGH = 2500 PSI, LOW = 250 PSI, CSNG TO 1500 PSI F/ 30 MIN	
	21:30 - 0:00	2.50	DRLPRO	05	A	P		INSTALL WEAR BUSHING, HELD SAFETY MTNG W/ LAY DWN CREW AND RIG CREW, RIG UP SAME	
2/7/2009	0:00 - 1:00	1.00	DRLPRO	07	A	Z		WORK ON BRK OUT CATHEAD	
	1:00 - 4:00	3.00	DRLPRO	05	A	P		PICK UP BIT # 1 , 0.22 REV/GAL MUD MOTOR,BHA AND DRILL PIPE, RIG DOWN LAY DOWN MACHINE	
	4:00 - 6:30	2.50	DRLPRO	06	D	P		SLIP AND CUT 50' DRLG LINE	
	6:30 - 14:00	7.50	DRLPRO	07	A	Z		REMOVE BRK OUT CATHEAD AND INSTALL NEW CATHEAD	

ROCKIES  
Operation Summary Report

Well: NBU 921-27MT		Spud Conductor: 11/9/2008		Spud Date: 12/7/2008	
Project: UTAH		Site: UINTAH		Rig Name No: PIONEER 69/69, PROPETRO/	
Event: DRILLING		Start Date: 12/7/2008		End Date: 2/20/2009	
Active Datum: RKB @4,992.00ft (above Mean Sea Level)		UWI: 0/9/S/21/E/27/0/SWSW/6/PM/S/634.00/W/0/931.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
2/8/2009	14:00 - 15:00	1.00	DRLPRO	01	B			TORQUE KELLY AND VALVES, INSTALL ROTATING HEAD RUBBER AND ROTATING HEAD DRIVE BUSHINGS
	15:00 - 15:30	0.50	DRLPRO	06	A	P		LUBRICATE RIG
	15:30 - 18:00	2.50	DRLPRO	02	F	P		DRLG CMNT,FLOAT,AND SHOE
	18:00 - 19:30	1.50	DRLPRO	02	B	P		DRLG FORMATION F/ 2501' TO 2627' = 126' = 84' HR - MM RPM = 100, ROTARY = 55, GPM = 454, PP ON BTM = 1150, OFF= 950 PSI, 120 SPM, STRING WT = 75K,UP=77K,DWN=72K,ROT=75K,MUD WT = 8.4 VIS 27 WOB = 15K
	19:30 - 20:00	0.50	DRLPRO	09	B	P		SURVEY @ 2544' = 0.9 DEGREE, 161.9 AZ , 52.12' CENTER TO CENTER, 2.91' SAFETY FACTOR
	20:00 - 20:30	0.50	DRLPRO	02	B	P		DRLG F/ 2627' TO 2656' = 29' = 58' HR,MM RPM = 100, ROTARY = 55, GPM= 454, 120 SPM, PP ON BTM=1150PSI - OFF = 950 PSI, STRING WT = 75K,UP=77K,DWN=72K, ROT= 75K MUD WT = 8.4 VIS = 27, WOB = 15K
	20:30 - 0:00	3.50	DRLPRO	07	A	Z		SWIVEL QUILL CRACKED, TRIP TO SHOE AND LAY DOWN SWIVEL
	0:00 - 2:30	2.50	DRLPRO	07	A	P		PICK UP SWIVEL AND TRIP IN HOLE
	2:30 - 8:30	6.00	DRLPRO	02	B	P		DRLG F/ 2656' TO 3134' = 478' - 79' HR, WOB=15,STRING WT=77K,UP=80K,DWN=72K, ROT=77K, 120SPM,454GPM, PP=1200 PSI, OFF BTM = 1050 PSI, MUD WT= 8.4 VIS = 28 , MM=100 ROTARY = 55
	8:30 - 9:00	0.50	DRLPRO	09	B	P		SURVEY @ 3050' MISS RUN
	9:00 - 9:30	0.50	DRLPRO	02	B	P		DRLG F/ 3134' TO 3165' = 31' = 62' HR , WOB = 15K,STRING WT=77K,UP=80K,DWN=72K,ROT=77K, = 120SPM, GPM = 454, PP = 1200 PSI, OFF BTM = 1050 PSI, MUD WT = 8.4 VIS = 28 , MM = 100 RPM, ROTARY = 55
	9:30 - 10:30	1.00	DRLPRO	09	B	P		SURVEY @ 3081' 2- MISS RUNS ( CALL FOR NEW TOOL)
	10:30 - 14:30	4.00	DRLPRO	02	B	P		DRLG F/ 3165' TO 3418' = 253' - 63' HR, WOB = 15K,STRING WT = 77K,UP=80K,DWN=72K, ROT=77K, 120 SPM, GPM= 454, PP = 1200 PSI, OFF BTM = 1050 PSI, MUD WT = 8.4 VIS = 36 MM RPM = 100 , ROTARY = 55
	14:30 - 15:00	0.50	DRLPRO	09	B	P		SURVEY @ 3344' = 0.8 DEGREE, 174.2 AZ, 63.8' CENTER TO CENTER, W/ 3.05' SAFETY FACTOR
	15:00 - 16:30	1.50	DRLPRO	02	B	P		DRLG F/ 3418' TO 3544' = 126' = 84' HR , WOB = 15K,STRING WT =81K,UP=,85K,DWN=,75K, ROT=,81K, 120 SPM,454 GPM, PP= 1300 PSI, OFF BTM= 1120 PSI, MUD WT = 8.8 VIS = 37 ROTARY = 55
	16:30 - 17:00	0.50	DRLPRO	06	A	P		LUBRICATE RIG
	17:00 - 0:00	7.00	DRLPRO	02	B	P		DRLG F/ 3544' TO 4019' = 475' = 68' HR, WOB= 15K, STRING WT = 103K,UP = 108, DWN= 98K,ROT=103K, 120 SPM, 454GPM, PP = 1420, PSI OFF BTM = 1300 PSI, MUD WT = 9.0 VIS = 40 , ROTARY = 55
2/9/2009	0:00 - 0:30	0.50	DRLPRO	02	B	P		DRLG F/ 4019' TO 4051' = 32' = 64' HR, WOB = 15,STRING WT = 104,UP=108,DWN=100,ROT=104,ROTARY=55,PP= 1400PSI,OFF BTM=1250 PSI, MM = 100, GPM=454,MUD WT = 9.1,VIS=40
	0:30 - 1:00	0.50	DRLPRO	09	B	P		SURVEY @ 3966' = 1.6 DEGREE, 139.8 AZ, 66' CENTER TO CENTER, 2.84 SAFETY FACTOR

## ROCKIES

## Operation Summary Report

Well: NBU 921-27MT			Spud Conductor: 11/9/2008				Spud Date: 12/7/2008	
Project: UTAH			Site: UINTAH				Rig Name No: PIONEER 69/69, PROPETRO/	
Event: DRILLING			Start Date: 12/7/2008				End Date: 2/20/2009	
Active Datum: RKB @4,992.00ft (above Mean Sea Level)			UWI: 0/9/S/21/E/27/0/SWSW/6/PM/S/634.00/W/0/931.00/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	1:00 - 7:00	6.00	DRLPRO	02	B	P		DRLG F/ 4051' TO 4557' = 506' = 84' HR, WOB=15K,STRING WT=114,UP=120K,DWN=99K,ROT=114K,ROTARY=55,PP=1750PSI, OFF BTM= 1600 PSI, MUD WT = 9.8 VIS = 39. GPM=454
	7:00 - 7:30	0.50	DRLPRO	09	B	P		SURVEY @ 4474' = 2.0 DEGREE, 145.6 AZ 85' CENTER TO CENTER, 3.3 SAFETY FACTOR
	7:30 - 13:30	6.00	DRLPRO	02	B	P		DRLG F/ 4557' TO 4936' = 379' = 63' HR, WOB=15K,SRING WT=118K,UP=122K,DWN=102K,ROT=118K,ROTARY=55,PP=1900PSI OFF BTM=1750 PSI, GPM = 454, MUD WT = 10.0 VIS 39
	13:30 - 14:00	0.50	DRLPRO	06	A	P		LUBRICATE RIG
	14:00 - 15:30	1.50	DRLPRO	02	B	P		DRLG F/ 4936' TO 5062' = 126' = 84' HR, WOB=15K,STRING WT=118K,UP=122K,DWN=102K,ROT=118K,ROTARTY=55,PP=1900 PSI,OFF BTM = 1750 PSI, GPM=454 MUD WT = 10.0 VIS = 40
	15:30 - 16:00	0.50	DRLPRO	09	B	P		SURVEY @ 4978' = 1.3 DEGREE, 141.9 AZ
	16:00 - 0:00	8.00	DRLPRO	02	B	P		DRLG F/ 5062' TO 5537' = 475' = 60' HR , WOB = 15K,STRING WT=122K,UP=130KDWN=115K,ROT=122K, ROTARY=55, PP=2020PSI,OFF BTM=1880PSI, MUD WT=10.4 VIS= 42
2/10/2009	0:00 - 16:00	16.00	DRLPRO	02	B	P		DRLG F/ 5537' TO 6359' = 822' = 51' HR, WOB=17K,STRING WT=136K,UP/DWN=140/130,ROT=133K,ROTARY=50,SPM=120,GPM=454,PP=2200 PSI,OFF BTM = 2050 PSI, MUDD WT= 10.4 VIS = 41 MM RPM=100
	16:00 - 16:30	0.50	DRLPRO	06	A	P		LUBRICATE RIG
	16:30 - 17:30	1.00	DRLPRO	02	B	P		DRLG F/ 6359' TO 6391' = 32' HR, WOB=17K,STRING WT = 136K, UP/DWN=140K,130K,ROT=133K,ROTARTY=50,MMRPM=100SPM=120.GPM=454,PP=2000 PSI OFF BTM= 2050 PSI, MUD WT = 10.4 VIS 42
	17:30 - 18:00	0.50	DRLPRO	07	A	Z		REPLACE ELECTRIC LINE TO AIR COMP
	18:00 - 0:00	6.00	DRLPRO	02	B	P		DRLG F/ 6391' TO 6591' = 200' = 33' HR, WOB=19K,STRING WT = 136K,UP/DWN=140K,130K,ROT=133K, ROTARY 50,MM=100RPM SPM=120,GPM=454,PP=2200 PSI,OFF BTM=2050 PSI, MUD WT=10.4 VIS = 41
2/11/2009	0:00 - 6:00	6.00	DRLPRO	02	B	P		DRLG F/ 6591' TO 6730' = 139' = 23' HR, WOB = 20K, STRING WT = 136K, UP / DWN / 140K, / 130K, ROT = 133K, RPM = 50, MM RPM = 100, GPM = 454, DIFF PRESS = 289 PSI , PP = 2200 PSI, OFF BTM PRESS = 2050 PSI, MUD WT = 10.4 VIS = 41
	6:00 - 6:30	0.50	DRLPRO	04	C	P		CIRC,BUILD & PUMP SLUG
	6:30 - 10:30	4.00	DRLPRO	05	A	P		TRIP F/ BIT # 1, L/D BIT #1, MUD MTR, MONEL DC, AND IBS
	10:30 - 11:30	1.00	DRLPRO	05	A	P		P/U BIT # 2-Q506-.16 MUD MTR, TRIP IN BHA
	11:30 - 12:00	0.50	DRLPRO	06	A	P		LUBRICATE RIG
	12:00 - 15:00	3.00	DRLPRO	05	A	P		TRIP IN HOLE ( FILL PIPE @ 2470' )
	15:00 - 15:30	0.50	DRLPRO	03	D	P		WASH & REAM 70' TO BOTTOM ( 2 ' FILL )
	15:30 - 0:00	8.50	DRLPRO	02	B	P		DRLG F/ 6730' TO 7083' = 353' = 42' HR, WOB = 19K, STRING WT = 143K, UP / DWN / = 150K / 135K, ROT = 143K, RPM = 50, MMRPM = 60, GPM = 454, DIFF PRESS = 250 PSI, PP= 2050 PSI, OFF BTM = 1850 PSI, MUD WT = 10.8 VIS = 44 ( BIT BALLING )

## ROCKIES

## Operation Summary Report

Well: NBU 921-27MT		Spud Conductor: 11/9/2008		Spud Date: 12/7/2008	
Project: UTAH		Site: UINTAH		Rig Name No: PIONEER 69/69, PROPETRO/	
Event: DRILLING		Start Date: 12/7/2008		End Date: 2/20/2009	
Active Datum: RKB @4,992.00ft (above Mean Sea Level)		UWI: 0/9/S/21/E/27/0/SWSW/6/PM/S/634.00/W/0/931.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
2/12/2009	0:00 - 16:30	16.50	DRLPRO	02	B	P		DRLG F/ 7083' TO 7557' = 474' = 29' HR, FORMATION 95% TIGHT SILTSTONE, WOB = 20K, STRING WT = 149K, UP = 155K, DOWN = 145K, ROTATION = 149K, RPM = 55, MUD MTR RPM = 70, GPM = 454, PUMP PRESS ON BTM = 2100 PSI, OFF BTM = 1950 PSI, DIFF PRESS = 210 PSI, MUD WT = 10.8 VIS = 44
	16:30 - 17:00	0.50	DRLPRO	06	A	P		LUBRICATE RIG
	17:00 - 0:00	7.00	DRLPRO	02	B	P		DRLG F/ 7557' TO 7684' = 127' = 18' HR, FORMATION 95% TIGHT SILTSTONE, WOB= 18K, STRING WT = 151K, 155K UP, 145K DOWN, ROTATION = 151K, RPM= 45, MUD MTR RPM = 70, GPM = 454, PUMP PRESS ON BTM = 2200 PSI, OFF BTM = 1950 PSI, DIFF PRESS = 190-210 PSI, MUD WT = 10.9 VIS = 43
2/13/2009	0:00 - 15:00	15.00	DRLPRO	02	B	P		DRLG F/ 7684' TO 8063' = 379' = 25' HR, WOB = 20K, STRING WT = 155K, UP=160, DWN= 149K, ROT = 155K, FORMATION 96% TIGHT SILTSTONE STRINGERS, RPM = 63, MUD MTR RPM = 70, PUMP PRESS = 2210 PSI, OFF BTM = 1950 PSI, DIFF PRESS = 150 TO 330 PSI, MUD WT = 10.9+ VIS = 44
	15:00 - 15:30	0.50	DRLPRO	06	A	P		LUBRICATE RIG
	15:30 - 19:00	3.50	DRLPRO	02	B	P		DRLG F/ 8063' TO 8138' = 75' = 22' HR WOB = 21K, STRING WT = 155K, UP = 160K, DWN = 149K, ROT = 155K, FORMATION 96% TIGHT SILTSTONE W/ CLAY STRINGERS, RPM = 58, MUD MTR RPM = 70, PUMP PRESS = 2200 PSI, OFF BTM PRESS = 1940 PSI, DIFF PRESS = 150 TO 300 PSI, MUD WT = 11.0 VIS = 44
2/14/2009	19:00 - 19:30	0.50	DRLPRO	04	C	P		CIRC,BUILD AND PUMP SLUG
	19:30 - 23:30	4.00	DRLPRO	05	A	P		TRIP F/ BIT # 2
	23:30 - 0:00	0.50	DRLPRO	05	A	P		LAY DWN BIT # 1 AND MAKE UP BIT # 3
	0:00 - 1:00	1.00	DRLPRO	05	A	P		TRIP IN TO SHOE,FILL DRILL PIPE
	1:00 - 2:30	1.50	DRLPRO	06	D	P		SLIP AND CUT 65' DRLG LINE = 13 WRAPS
	2:30 - 5:00	2.50	DRLPRO	05	A	P		TRIP IN HOLE NO PROBLEMS
	5:00 - 5:30	0.50	DRLPRO	03	C	P		WASH AND REAM 58' TO BOTTOM ( NO FILL )
	5:30 - 16:00	10.50	DRLPRO	02	B	P		DRLG F/ 8138' TO 8570' = 432' = 41' HR, WOB = 16K-18K, STRING WT = 164K, UP = 170K, DWN = 160K, ROT = 164K, ROTARY = 55, MUD MTR = 70, PUMP PRESS = 2320 PSI, OFF BTM = 2100 PSI, DIFF PRESS = 250 PSI, MUD WT = 11.2 VIS = 44, TRIP GAS = 1120 UNITS NO FLARE
	16:00 - 16:30	0.50	DRLPRO	06	A	P		LUBRICATE RIG
2/15/2009	16:30 - 0:00	7.50	DRLPRO	02	B	P		DRLG F/ 8570' TO 8918' = 348' = 46' HR, WOB = 18K,STRING WT = 168K,UP = 175K, DWN = 160 K, ROT= 168K, ROTARY = 55, MUD MTR = , 70, PUMP PRESS = 2450 PSI, OFF BTM = 2280 PSI, DIFF PRESS = 350 PSI, MUD WT = 11.4 VIS = 45, BACKGROUND GAS 0-300 UNITS, HIGH GAS = 6450 UNITS W/ NO FLARE
	0:00 - 17:00	17.00	DRLPRO	02	B	P		DRLG F/ 8918' TO 9519' = 601' = 35' HR, WOB = 20K,STRING WT = 169K,UP = 175K, DWN = 160 K, ROT = 169K, ROTARY = 55-60, MUD MTR = 70, PUMP PRESS = 2500 PSI, OFF BTM = 2320 PSI, DIFF PRES = 250 PSI, MUD WT = 11.9 VIS = 44, BACK GROUND GAS = 0-1500 UNITS, MUD WT = 11.9 VIS = 45
	17:00 - 17:30	0.50	DRLPRO	06	A	P		LUBRICATE RIG

# ROCKIES

## Operation Summary Report

Well: NBU 921-27MT		Spud Conductor: 11/9/2008		Spud Date: 12/7/2008	
Project: UTAH		Site: UINTAH		Rig Name No: PIONEER 69/69, PROPETRO/	
Event: DRILLING		Start Date: 12/7/2008		End Date: 2/20/2009	
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Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	17:30 - 0:00	6.50	DRLPRO	02	B	P		DRLG F/ 9519' TO 9677' = 158' = 24' HR, WOB = 20-21K, STRING WT = 180K, UP = 187K, DWN = 172K, ROT=180K,ROTARY = 55-60, MUD MTR = 70, PUMP PRESS = 2500 PSI,OFF BTM = 2350 PSI, DIFF PRESS = 250 PSI, MUD WT = 11.9 VIS = 44, BACKGROUND GAS = 0-400 UNITS
2/16/2009	0:00 - 0:30	0.50	DRLPRO	16	E	X		WORK TIGHT CONNECTION @ 9677' LOST 60 BBLS MUD, WATER FLOW, START RAISING MUD WT AND LCM CONTENT
	0:30 - 18:30	18.00	DRLPRO	02	B	P		DRLG F/ 9677' TO 9880' T.D.= 203' = 11' HR, WOB = 21K,STRING WT = 190K, UP = 200K,DOWN = 180K, ROT= 190K, ROTARY 50 TO 60, MUD MTR = 70 RPM, PUMP PRESS = 2520 PSI, OFF BTM = 2400 PSI, DIFF PRESS = 150 - 200 PSI, MUD WT = 12.0 TO 12.9+ VIS = 48, TO KILL WATER FLOW, LCM CONTENT = 6 % NO LOSSES, BACKGROUND GAS = 100 UNITS
	18:30 - 19:00	0.50	DRLPRO	04	C	P		CIRC,BUILD & PUMP SLUG, CHECK FLOW , NO FLOW
	19:00 - 22:00	3.00	DRLPRO	05	E			SHORT TRIP TO 8100' ( NO PROBLEMS )
	22:00 - 23:30	1.50	DRLPRO	04				CIRC TO TRIP OUT F/ LOGS, PUMP SLUG
	23:30 - 0:00	0.50	DRLPRO	05	B	P		TRIP F/ TRIPLE COMBO LOGS
2/17/2009	0:00 - 6:00	6.00	DRLPRO	05	B	P		TRIP F/ TRIPLE COMBO LOGS, TIGHT @ 3791' AND 3766', WORK THROUGH SAME
	6:00 - 9:30	3.50	DRLPRO	10	C	P		HELD SAFETY MTNG W/ BAKER - ATLAS & RIG CREWS RIG UP AND RUN TRIPLE COMBO LOG, HIT TIGHT SPOT @ 4450' WORK STUCK TOOL, LINE TENSION MAX = 12K LINE TENNSION WAS @ 6,500 WHEN LINE WAS PULLED OUT OF ROPE SOCKET,PULL WIRE OUT OF HOLE AND RELEASE TRUCK
	9:30 - 14:00	4.50	DRLPRO	12	F	X		WAIT ON FISHING TOOLS AND FISHING HAND TO RETREIVE LOGGING TOOL
	14:00 - 16:30	2.50	DRLPRO	16	A	X		P/U 7 3/8" OVER SHOT W/ 3 3/8 GRAPPLE BUMPER SUB & JARS TIH TO 4360'
	16:30 - 17:00	0.50	DRLPRO	04	A	P		CIRC BOTTOMS UP
	17:00 - 22:00	5.00	DRLPRO	16	A	X		ATTEMPT TO ENGAGE FISH F/ 4420' TO 4485' DID NOT TAG ANYTHING,TIH
	22:00 - 0:00	2.00	DRLPRO	16	A	X		WASH OVERSHOT F/ 9766' TO 9820' ,CIRC BOTTOMS UP
2/18/2009	0:00 - 1:30	1.50	DRLPRO	16	A	X		WASH & WORK OVER SHOT @ 9820' ,DRILL STRING HOLDING PRESSURE OFF BOTTOM W/ PUMP KICKED OUT
	1:30 - 9:00	7.50	DRLPRO	16	A	X		TOOH W/ FISH (CHAIN OUT WET)
	9:00 - 11:30	2.50	DRLPRO	16	A	X		BREAK DOWN LOGGING TOOLS IN MOUSE HOLE & L/D FISHING TOOLS
	11:30 - 12:00	0.50	DRLPRO	06	A	P		RIG SERVICE, ADJUST BRAKES
	12:00 - 15:00	3.00	DRLPRO	05	E	P		M/U RR BIT & BIT SUB TIH TO 4500'
	15:00 - 15:30	0.50	DRLPRO	04	A	P		FILL PIPE
	15:30 - 18:00	2.50	DRLPRO	05	E	P		FINISH TIH, TAG @ 9744' ( LOST 80 BBLS ON TRIP )
	18:00 - 19:00	1.00	DRLPRO	03	E	P		WASH & REAM F/ 9744' TO 9880' ( NO FILL )
	19:00 - 21:00	2.00	DRLPRO	04	C	P		CIRC & COND,BUILD 80 BBLS VOLUME
	21:00 - 0:00	3.00	DRLPRO	05	A	P		TOOH F/ LOGS ( NO PROBLEMS )
2/19/2009	0:00 - 1:00	1.00	DRLPRO	05	A	P		FINISH TOOH F/LOGS
	1:00 - 9:30	8.50	DRLPRO	10	C	P		SAFETY MEETING W/ BAKER ATLAS, R/U TOOLS NOT READING CORRECTLY,P/U NEW LOGS ,RUN TRIPLE COMBO TO 9883' (NO HOLE PROBLEMS )

ROCKIES  
Operation Summary Report

Well: NBU 921-27MT		Spud Conductor: 11/9/2008		Spud Date: 12/7/2008	
Project: UTAH		Site: UINTAH		Rig Name No: PIONEER 69/69, PROPETRO/	
Event: DRILLING		Start Date: 12/7/2008		End Date: 2/20/2009	
Active Datum: RKB @4,992.00ft (above Mean Sea Level)		UWI: 0/9/S/21/E/27/0/SWSW/6/PM/S/634.00/W/0/931.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
2/20/2009	9:30 - 11:00	1.50	DRLPRO	05	A	P		M/U BIT & BIT SUB TIH TO 4500'
	11:00 - 12:00	1.00	DRLPRO	04	A	P		FILL PIPE
	12:00 - 14:30	2.50	DRLPRO	05	A	P		FINISH TIH ,( LOST 60 BBLS ON TRIP )
	14:30 - 18:00	3.50	DRLPRO	04	C	P		CIRC & COND F/ LDDP,BUILD 60 BBLS VOLUME ,SAFETY MEETING W/ KIMZEY CASING R/U L/D MACHINE , BUILD & PUMP PILL
	18:00 - 23:30	5.50	DRLPRO	05	A	P		LDDP,BREAK KELLY ,L/D BHA ,PULL WEAR RING
	23:30 - 0:00	0.50	DRLPRO	11	A	P		SAFETY MEETING W/ KIMZEY CASING,START R/U CASERS
	0:00 - 2:00	2.00	DRLPRO	11	A	P		R/U KIMZEY CASERS
	2:00 - 9:00	7.00	DRLPRO	11	B	P		RUN 233 JTS 4.5,11.6,I-80 PROD CASING TO 9876'
	9:00 - 12:00	3.00	DRLPRO	04	E	P		CIRC F/ CEMENT ,R/D KIMZEY CASING ( LOCATION TO SMALL HAD TO GET KIMZEY OFF LOCATION BEFORE BJ SERVICES COULD GET ON LOCATION ) SAFETY MEETING W/ BJ & R/U
	12:00 - 15:30	3.50	DRLPRO	15	A	P		PUMP 20 BBLS MUD CLEAN,20 SX SCAVENGER,632 SX LEAD,1423 SX TAIL,DISPLACE W/ 153 BBLS CLAYTREAT
								WATER,BUMP PLUG @ 3615 PSI,FLOATS HELD 3120 PSI LIFT ,NO CEMENT TO SURFACE,FULL RETURNS THROUGH OUT JOB,R/D CEMENTERS
	15:30 - 20:00	4.50	DRLPRO	13	A	P		PACK OFF & TEST HANGER TO 5000 PSI ,NIPPLE DOWN & CLEAN PITS ,RELEASE RIG @ 20:00 2/20/2009 TO NBU 921-27OT

# ROCKIES

## Operation Summary Report

Well: NBU 921-27MT			Spud Conductor: 11/9/2008				Spud Date: 12/7/2008	
Project: UTAH			Site: UINTAH				Rig Name No: MILES-GRAY 1/1	
Event: COMPLETION			Start Date: 4/30/2009				End Date: 5/6/2009	
Active Datum: RKB @4,992.00ft (above Mean Sea Level)			UWI: 0/9/S/21/E/27/0/SWSW/6/PM/S/634.00/W/0/931.00/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
4/30/2009	7:00 - 7:15	0.25	COMP	48		P		HSM, ROADING RIG
	7:15 - 17:00	9.75	COMP	47	A			R/D, ROD RIG FROM NBU 922-32ET TO 921-27MT, MIRU SPOT EQUIP, N/D WELL HEAD, N/U BOPS, R/U TBG EQUIP, P/U 3-7/8 MILL TALLEY & P/U 2/3/8 L-80 TBG EOT @ ', SWIFN.
5/1/2009	7:00 - 7:15	0.25	COMP	48		P		HSM, PT/ CSG
	7:15 - 17:00	9.75	COMP	47	B	P		FINISH OOH W/ 2-3/8 TBG & BHA, R/D TBG EQUIP, N/D BOPS, N/U FRAC VALVES, MIRU B&C TESTERS, P/T CSG & FRAC VALVES TO 7500#, [GOOD TEST] R/D TESTERS, MIRU CUTTER WIRE LINE. P/U RIH W/ 3-3/8 EXPEND, 23GRM, 0.36" HOLE, 9774'-9780' 3 SPF, 120* PH, 9750'-9752' 3 SPF, 6 HOLES, 9676'-9680' 4 SPF, 16 HOLES, R/D CUTTERS, SWIFN.
5/4/2009	7:00 - 7:15	0.25	COMP	48		P		HSM, FRACING

## ROCKIES

## Operation Summary Report

Well: NBU 921-27MT		Spud Conductor: 11/9/2008		Spud Date: 12/7/2008	
Project: UTAH		Site: UINTAH		Rig Name No: MILES-GRAY 1/1	
Event: COMPLETION		Start Date: 4/30/2009		End Date: 5/6/2009	
Active Datum: RKB @4,992.00ft (above Mean Sea Level)		UWI: 0/9/S/21/E/27/0/SWSW/6/PM/S/634.00/W/0/931.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	7:15 - 17:00	9.75	COMP	36	E	P		<p>MIRU WEATHERFORD FRAC EQUIP &amp; CUTTERS WIRE LINE, FFRAC MESA VERDE STG #1 9676'-9680' [40 HOLES]</p> <p>STG #1] WHP=1600#, BRK DN PERFS @ 3335#, INJ PSI=5000#, INJ RT= 49.7, ISIP=2662#, FG=.72, PUMP'D 1202 BBLS SLK WTR W/ 42182# 30/50 MESH W/ 4965# RESIN COAT IN TAIL, ISIP=3007#, FG=.75, AR=51.6, AP=5037#, MR=51.7, MP=6591#, NPI=345#, 40/40 CALC PERFS OPEN.</p> <p>STG #2] P/U RIH W/ BKR 8K CBP &amp; PERF GUN, SET CBP @ 9574', PERF MESAVERDE USING 3-3/8 EXPEND, 23GRM, 0.36" HOLE, 9542'-9544 3 SPF, 120* PH, 6 HOLES, 9434'-9438 4 SPF, 90* PH, 16 HOLES, 9344'-9348' 3 SPF, 120* PH, 12 HOLES, 9306'-9308' 6 HOLES [40 HOLES]</p> <p>WHP=0#, BRK DN PERFS @ 3877#, INJ PSI=5800#, INJ RT=53.7 , ISIP=3080#, FG=.77, PUMP'D 1033.7 BBLS SLK WTR W/ 3840# 30/50 MESH W/ # RESIN COAT IN TAIL, ISIP=3232#, FG=.79, AR=53.6, AP=5480#, MR=54, MP=6454#, NPI=152#, 35/40 CALC PERFS OPEN.</p> <p>STG #3] P/U RIH W/ BKR 8K CBP &amp; PERF GUN, SET CBP @ 9268', PERF MESAVERDE USING 3-3/8 EXPEND, 23GRM, 0.36" HOLE, 3 SPF, 90* PH, 9234'-9238' 12 HOLES, 9134'-9140' 18 HOLES, 9010'-9014' 12 HOLES [40 HOLES]</p> <p>WHP=0#, BRK DN PERFS @ 3744#, INJ PSI=5650#, INJ RT=56.2 , ISIP=2418#, FG=.71, PUMP'D 2927.4 BBLS SLK WTR W/ 109364# 30/50 MESH W/ 5022# RESIN COAT IN TAIL, ISIP=3062#, FG=.78, AR=52.8, AP=5016#, MR=58.8, MP=6180#, NPI=644#, 30/40 CALC PERFS OPEN.</p> <p>STG #4] P/U RIH W/ BKR 8K CBP &amp; PERF GUN, SET CBP @ 8944', PERF MESAVERDE USING 3-3/8 EXPEND, 23GRM, 0.36" HOLE, 3 SPF, 90* PH, 9234'-9238' 12 HOLES, 9134'-9140' 18 HOLES, 9010'-9014' 12 HOLES [40 HOLES]</p> <p>WHP=460#, BRK DN PERFS @ 3857#, INJ PSI=5450#, INJ RT=50.8 , ISIP=2430#, FG=.72, PUMP'D 2181 BBLS SLK WTR W/ 88241# 30/50 MESH W/ 4957# RESIN COAT IN TAIL, ISIP=3043#, FG=.79, AR=50.3, AP=4638#, MR=50.8, MP=5614#, NPI=613#, 40/40 CALC PERFS OPEN.</p> <p>STG #5] P/U RIH W/ BKR 8K CBP &amp; PERF GUN, SET CBP @ 8654', PERF MESAVERDE USING 3-3/8 EXPEND, 23GRM, 0.36" HOLE, 4 SPF, 120* PH, 8620'-8624' 16 HOLES, 8590'-8596' 24 HOLES, [40 HOLES]</p> <p>WHP=0#, BRK DN PERFS @ 4201#, INJ PSI=5200#, INJ RT=50.7 , ISIP=2908#, FG=.72, PUMP'D 717 BBLS SLK WTR W/ 24750# 30/50 MESH W/ 5063# RESIN COAT IN TAIL, ISIP=2996#, FG=.79, AR=51.1, AP=4791#, MR=50.7, MP=5299#, NPI=88#, 40/40 CALC PERFS OPEN.</p>

## ROCKIES

## Operation Summary Report

Well: NBU 921-27MT		Spud Conductor: 11/9/2008		Spud Date: 12/7/2008	
Project: UTAH		Site: UINTAH		Rig Name No: MILES-GRAY 1/1	
Event: COMPLETION		Start Date: 4/30/2009		End Date: 5/6/2009	
Active Datum: RKB @4,992.00ft (above Mean Sea Level)		UWI: 0/9/S/21/E/27/0/SWSW/6/PM/S/634.00/W/0/931.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
								STG #6] P/U RIH W/ BKR 8K CBP & PERF GUN, SET CBP @ 8480', PERF MESAVERDE USING 3-3/8 EXPEND, 23GRM, 0.36" HOLE, 8446'-8450' 3 SPF, 120* PH, 12 HOLES, 8398'-8402' 4 SPF, 90* PH, 16 HOLES, 8384'-8352' 3 SPF, 120* PH, 12 HOLES [40 HOLES]
								WHP=0#, BRK DN PERFS @ 3526#, INJ PSI=5300#, INJ RT= 52.2, ISIP=2187#, FG=.70, PUMP'D 1608 BBLS SLK WTR W/ 64789# 30/50 MESH W/ 4995# RESIN COAT IN TAIL, ISIP=2845#, FG=78., AR=52.7, AP=4657#, MR=53.7, MP=5650#, NPI=658#, 32/40 CALC PERFS OPEN.
								STG #7] P/U RIH W/ BKR 8K CBP & PERF GUN, SET CBP @ 8140', PERF MESAVERDE USING 3-3/8 EXPEND, 23GRM, 0.36" HOLE, 4 SPF, 90* PH, 8106'-8110' 16 HOLES, 8064'-8070' 24 HOLES [40 HOLES] SWIFN. 17:00 HRS.
5/5/2009	7:00 - 7:15	0.25	COMP	48		P		HSM, FRACING / TIH
	7:15 - 17:00	9.75	COMP	36	E	P		FRC STG #7 MESAVERDE 8064'-8110' 40 HOLES.
								WHP=630#, BRK DN PERFS @ 2973#, INJ PSI=4300#, INJ RT=49.5, ISIP=1715#, FG=.65, PUMP'D 1924 BBLS SLK WTR W/ 73362# 30/50 MESH W/ 4890# RESIN COAT IN TAIL, ISIP=2781#, FG=.79, AR=50.2, AP=4220#, MR=51.7, MP=5615#, NPI=1066#, 33/40 CALC PERFS OPEN.
								STG #8] P/U RIH W/ BKR 8K CBP & PERF GUN, SET CBP @ 7944' PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE, 4 SPF, 90* PH, 8106'-8110' 16 HOLES, 8064'-8070' 24 HOLES [40 HOLES]
								WHP=0#, BRK DN PERFS @ 3766#, INJ PSI=4100#, INJ RT=50.4, ISIP=2079#, FG=.71, PUMP'D 4088 BBLS SLK WTR W/ 91767# 30/50 MESH W/ 4870# RESIN COAT IN TAIL, ISIP=2795#, FG=.80, AR=50.4, AP=3921#, MR=51, MP=5698#, NPI=716#, 40/40 CALC PERFS OPEN.
								P/U RIH W/ BKR 8K CBP, SET CBP @ 7718', R/D CUTTERS WIRE LINE & WEATHERFORD FRAC EQUIP, N/D FRAC VALVES, N/U BOPS, R/U TBG EQUIP, P/U 3-7/8 BIT W/ POBS PKG, RIH W/ 2-3/8 L-80 TBG, TAG KILL PLUG @ 7718', P/U PWR SWVL, PREP TO DRL IN A.M
5/6/2009	7:00 - 7:15	0.25	COMP	48		P		HSM, MAKING CONNECTIONS

## ROCKIES

## Operation Summary Report

Well: NBU 921-27MT		Spud Conductor: 11/9/2008		Spud Date: 12/7/2008	
Project: UTAH		Site: UINTAH		Rig Name No: MILES-GRAY 1/1	
Event: COMPLETION		Start Date: 4/30/2009		End Date: 5/6/2009	
Active Datum: RKB @4,992.00ft (above Mean Sea Level)		UWI: 0/9/S/21/E/27/0/SWSW/6/PM/S/634.00/W/0/931.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	7:15 - 15:00	7.75	ABAND	44	C	S		<p>OPEN WELL 0# SICP, 0# SITP, EST CIRC W/ RIG PUMP,</p> <p>PLUG #1] DRL THROUGH BKR 8K CBP @ 7720' IN 7 MIN, 1000# INCREASE.</p> <p>PLUG #2] CONTINUE TO RIH TAG SAND @ 7914' [26' FILL] C/O &amp; DRL THROUGH BKR 8K CBP @ 7940' IN 8 MIN. W/ 200# INCREASE.</p> <p>PLUG #3] CONTINUE TO RIH, TAG SAND @ 8110' [30' FILL] C/O &amp; DRL THROUGH BKR 8K CBP @ 8140' IN 10 MIN, W/ 400# INCREASE.</p> <p>PLUG #4] CONTINUE TO RIH TAG SAND @ 8450' [30' FILL] C/O &amp; DRL THROUGH BKR 8K CBP @ 8480' IN 10 MIN. W/ 200# INCREASE,</p> <p>PLUG #5] CONTINUE TO RIH TAG SAND @ 8624' [26' FILL] C/O &amp; DRL THROUGH BKR 8K CBP @ 8650' IN 8 MIN. W/ 400# INCREASE.</p> <p>PLUG #6] CONTINUE TO RIH, TAG SAND @ 8914' [30' FILL] C/O &amp; DRL THROUGH BKR 8K CBP @ 8944' IN 10 MIN. W/ 300# INCREASE.</p> <p>PLUG #7] CONTINUE TO RIH, TAG SAND @ 9208' [60' FILL] C/O &amp; DRL THROUGH BKR 8K CBP @ 9268' IN 10 MIN. W/ 100# INCREASE.</p> <p>PLUG #8] CONTINUE TO RIH, TAG SAND @ 9544' [30' FILL] C/O &amp; DRL THROUGH BKR 8K CBP @ 9574 IN 10 MIN. W/ 400# INCREASE.</p> <p>CONTINUE TO RIH &amp; C/O TO PBTD @ 9833' CIRC HOLE, L/D 22 JNTS, R/D PWR SWVL, R/D TBG EQUIP, N/D BOPS, N/U WELL HEAD, DROP BALL, PUMP OFF BIT W/ 2300#, SWI FOR 30 MIN. TURN OVER TO F/B CREW.</p>
5/7/2009	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 1750#, TP 1700#, 20/64" CK, 70 BWPH, 1CUP SAND, - GAS</p> <p>TTL BBLS RECOVERED: 4870</p> <p>BBLS LEFT TO RECOVER: 8298</p>
5/8/2009	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 2000#, TP 1850#, 20/64" CK, 70 BWPH, 1/4 CUP SAND, - GAS</p> <p>TTL BBLS RECOVERED: 6790</p> <p>BBLS LEFT TO RECOVER: 6378</p>
5/9/2009	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 2000#, TP 2000#, 20/64" CK, 70 BWPH, 1/8 CUP SAND, - GAS</p> <p>TTL BBLS RECOVERED: 8470</p> <p>BBLS LEFT TO RECOVER: 4698</p>
	10:00 -			50				<p>WELL TURNED TO SALE @ 1000 HR ON 5/9/09-FTP 1950#, CP 2050#, 1000 MCFD, 60 BWPD, 18/64" CK</p>
5/10/2009	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 2250#, TP 2050#, 18/64" CK, 45 BWPH, - SAND, - GAS</p> <p>TTL BBLS RECOVERED: 9670</p> <p>BBLS LEFT TO RECOVER: 3498</p>
5/11/2009	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 2750#, TP 2050#, 18/64" CK, 45 BWPH, 1 TBSP SAND, 1123 GAS</p> <p>TTL BBLS RECOVERED: 10826</p> <p>BBLS LEFT TO RECOVER: 2342</p>

## ROCKIES

## Operation Summary Report

Well: NBU 921-27MT			Spud Conductor: 11/9/2008			Spud Date: 12/7/2008			
Project: UTAH			Site: UINTAH				Rig Name No: MILES-GRAY 1/1		
Event: COMPLETION			Start Date: 4/30/2009				End Date: 5/6/2009		
Active Datum: RKB @4,992.00ft (above Mean Sea Level)				UWI: 0/9/S/21/E/27/0/SWSW/6/PM/S/634.00/W/0/931.00/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation	
5/12/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 3300#, TP 2000#, 18/64" CK, 45 BWPH, TSP. SAND, 1220 GAS TTL BBLS RECOVERED: 11922 BBLS LEFT TO RECOVER: 1246	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ST UO 1194A
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 921-27MT
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0634 FSL 0931 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 27 Township: 09.0S Range: 21.0E Meridian: S		<b>9. API NUMBER:</b> 43047401710000
<b>PHONE NUMBER:</b> 720 929-6587 Ext		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> <b>ACIDIZE</b>	
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> <b>ALTER CASING</b>	
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> <b>CASING REPAIR</b>	
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 5/9/2009	<input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b>	
	<input type="checkbox"/> <b>CHANGE TUBING</b>	
	<input type="checkbox"/> <b>CHANGE WELL STATUS</b>	
	<input type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b>	
	<input type="checkbox"/> <b>DEEPEN</b>	
	<input type="checkbox"/> <b>FRACTURE TREAT</b>	
	<input type="checkbox"/> <b>OPERATOR CHANGE</b>	
	<input type="checkbox"/> <b>PLUG AND ABANDON</b>	
	<input type="checkbox"/> <b>PRODUCTION START OR RESUME</b>	
	<input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b>	
	<input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b>	
	<input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b>	
	<input type="checkbox"/> <b>TUBING REPAIR</b>	
	<input type="checkbox"/> <b>VENT OR FLARE</b>	
	<input type="checkbox"/> <b>WATER SHUTOFF</b>	
	<input type="checkbox"/> <b>SI TA STATUS EXTENSION</b>	
	<input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>	
	<input type="checkbox"/> <b>OTHER:</b> _____	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b>  THE SUBJECT WELL LOCATION WAS PLACED ON PRODUCTION ON 05/09/2009 AT 10:00 AM. PLEASE REFER TO THE ATTACHED CHRONOLOGICAL WELL HISTORY.		
<b>Accepted by the</b> <b>Utah Division of</b> <b>Oil, Gas and Mining</b> <b>FOR RECORD ONLY</b> May 20, 2009		
<b>NAME (PLEASE PRINT)</b> Sheila Upchego	<b>PHONE NUMBER</b> 435 781-7024	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 5/20/2009	

# ROCKIES

## Operation Summary Report

Well: NBU 921-27MT			Spud Conductor: 11/9/2008			Spud Date: 12/7/2008			
Project: UTAH			Site: UINTAH				Rig Name No: PIONEER 69/69, PROPETRO/		
Event: DRILLING			Start Date: 12/7/2008				End Date: 2/20/2009		
Active Datum: RKB @4,992.00ft (above Mean Sea Level)			UWI: 0/9/S/21/E/27/0/SWSW/6/PM/S/634.00/W/0/931.00/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation	
12/7/2008	12:00 - 0:00	12.00	DRLSUR	02		P		MOVE IN AND RIG UP AIR RIG SPUD WELL @ 1200 HR 12/7/08 DA AT REPORT TIME 540'	
12/8/2008	0:00 - 12:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD NO WATER 1080'	
	12:00 - 0:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD NO WATER 1500'	
12/9/2008	0:00 - 4:00	4.00	DRLSUR	02		P		RIG DRILL TO 1560' RIG BROKE DOWN WAIT ON MECHANIC	
	4:00 - 22:00	18.00	DRLSUR	07		Z		WAS UNABLE TO FIX RIG 6 SWAP OUT RIG 6 FOR RIG 5	
12/10/2008	22:00 - 0:00	2.00	DRLSUR	05		P		TIH WITH TRI CONE AT REPORT TIME	
	0:00 - 12:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD NO WATER 1890'	
	12:00 - 0:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD NO WATER 2250'	
12/11/2008	0:00 - 12:00	12.00	DRLSUR	02		P		RIG DRILLING AHEAD NO WATER 2310'	
	12:00 - 20:00	8.00	DRLSUR	02		P		RIG T/D @ 2500' CONDITION HOLE 1 HR RUN SURVEY 2 DEG.	
12/12/2008	20:00 - 0:00	4.00	DRLSUR	05		P		TRIP DP OUT OF HOLE	
	0:00 - 4:30	4.50	DRLSUR	11		P		RUN 2469' OF 9 5/8 CSG AND 200' OF 1" PIPE AND RIG DOWN AIR RIG	
	4:30 - 5:30	1.00	DRLSUR	15		P		CEMENT 1ST STAGE WITH 225 SKS LEAD @ 11# 3.82 23 GAL SK AND 200 SKS TAIL @ 15.8# 1.15 5.0 GAL/SK GOOD RETURNS THRU OUT JOB + - 25 BBL LEAD CMT TO PIT	
	5:30 - 6:00	0.50	DRLSUR	15		P		1ST TOP JOB 150 SKS DOWN 1" PIPE GOOD CMT TO SURFACE AND FELL BACK WOC	
	6:00 - 8:00	2.00	DRLSUR	15		P		2ND TOP JOB 150 SKS DOWN BS GOOD CMT TO SURFACE AND STAYED AT SURFACE	
	8:00 - 8:00	0.00	DRLSUR					NO VISIBLE LEAKS PIT 30% FULL WORT	
2/4/2009	12:00 - 0:00	12.00	DRLPRO	01	E	P		RDRT PREPARE FOR MOVE	
2/5/2009	0:00 - 7:00	7.00	DRLPRO	01	E	P		RDRT, PREPARE TO MOVE TO THE NBU 922-27MT THIS AM	
	7:00 - 19:00	12.00	DRLPRO	01	A	P		MOVE RIG, 100 % MOVED	
	19:00 - 0:00	5.00	DRLPRO	01	B	P		RURT, SUB, SCOPED UP AND DRK AT HALF MAST AT 17:30 HRS	
2/6/2009	0:00 - 13:00	13.00	DRLPRO	01	B	P		SOPE DRK, RIG UP FLOOR, ELCTRICAL LINES, ECT, P/U KELLY AND VALVES,	
	13:00 - 17:00	4.00	DRLPRO	13	A	P		NIPPLE UP BOPE	
	17:00 - 21:30	4.50	DRLPRO	13	C	P		HELD SAFETY MTNG W/ TESTERS AND RIG CREW, TEST BOPE - KELLY & VALVES - HIGH = 5000 PSI, LOW = 250 PSI, - BLIND RAMS, PIPE RAMS, CHOKE VALVES, CHOKE MANIFOLD, KILL LINE - HIGH = 5000 PSI, LOW = 250 PSI, ANNULAR, HIGH = 2500 PSI, LOW = 250 PSI, CSNG TO 1500 PSI F/ 30 MIN	
	21:30 - 0:00	2.50	DRLPRO	05	A	P		INSTALL WEAR BUSHING, HELD SAFETY MTNG W/ LAY DWN CREW AND RIG CREW, RIG UP SAME	
2/7/2009	0:00 - 1:00	1.00	DRLPRO	07	A	Z		WORK ON BRK OUT CATHEAD	
	1:00 - 4:00	3.00	DRLPRO	05	A	P		PICK UP BIT # 1 , 0.22 REV/GAL MUD MOTOR,BHA AND DRILL PIPE, RIG DOWN LAY DOWN MACHINE	
	4:00 - 6:30	2.50	DRLPRO	06	D	P		SLIP AND CUT 50' DRLG LINE	
	6:30 - 14:00	7.50	DRLPRO	07	A	Z		REMOVE BRK OUT CATHEAD AND INSTALL NEW CATHEAD	

ROCKIES  
Operation Summary Report

Well: NBU 921-27MT		Spud Conductor: 11/9/2008		Spud Date: 12/7/2008	
Project: UTAH		Site: UINTAH		Rig Name No: PIONEER 69/69, PROPETRO/	
Event: DRILLING		Start Date: 12/7/2008		End Date: 2/20/2009	
Active Datum: RKB @4,992.00ft (above Mean Sea Level)		UWI: 0/9/S/21/E/27/0/SWSW/6/PM/S/634.00/W/0/931.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
2/8/2009	14:00 - 15:00	1.00	DRLPRO	01	B			TORQUE KELLY AND VALVES, INSTALL ROTATING HEAD RUBBER AND ROTATING HEAD DRIVE BUSHINGS
	15:00 - 15:30	0.50	DRLPRO	06	A	P		LUBRICATE RIG
	15:30 - 18:00	2.50	DRLPRO	02	F	P		DRLG CMNT,FLOAT,AND SHOE
	18:00 - 19:30	1.50	DRLPRO	02	B	P		DRLG FORMATION F/ 2501' TO 2627' = 126' = 84' HR - MM RPM = 100, ROTARY = 55, GPM = 454, PP ON BTM = 1150, OFF= 950 PSI, 120 SPM, STRING WT = 75K,UP=77K,DWN=72K,ROT=75K,MUD WT = 8.4 VIS 27 WOB = 15K
	19:30 - 20:00	0.50	DRLPRO	09	B	P		SURVEY @ 2544' = 0.9 DEGREE, 161.9 AZ , 52.12' CENTER TO CENTER, 2.91' SAFETY FACTOR
	20:00 - 20:30	0.50	DRLPRO	02	B	P		DRLG F/ 2627' TO 2656' = 29' = 58' HR,MM RPM = 100, ROTARY = 55, GPM= 454, 120 SPM, PP ON BTM=1150PSI - OFF = 950 PSI, STRING WT = 75K,UP=77K,DWN=72K, ROT= 75K MUD WT = 8.4 VIS = 27, WOB = 15K
	20:30 - 0:00	3.50	DRLPRO	07	A	Z		SWIVEL QUILL CRACKED, TRIP TO SHOE AND LAY DOWN SWIVEL
	0:00 - 2:30	2.50	DRLPRO	07	A	P		PICK UP SWIVEL AND TRIP IN HOLE
	2:30 - 8:30	6.00	DRLPRO	02	B	P		DRLG F/ 2656' TO 3134' = 478' - 79' HR, WOB=15,STRING WT=77K,UP=80K,DWN=72K, ROT=77K, 120SPM,454GPM, PP=1200 PSI, OFF BTM = 1050 PSI, MUD WT= 8.4 VIS = 28 , MM=100 ROTARY = 55
	8:30 - 9:00	0.50	DRLPRO	09	B	P		SURVEY @ 3050' MISS RUN
	9:00 - 9:30	0.50	DRLPRO	02	B	P		DRLG F/ 3134' TO 3165' = 31' = 62' HR , WOB = 15K,STRING WT=77K,UP=80K,DWN=72K,ROT=77K, = 120SPM, GPM = 454, PP = 1200 PSI, OFF BTM = 1050 PSI, MUD WT = 8.4 VIS = 28 , MM = 100 RPM, ROTARY = 55
	9:30 - 10:30	1.00	DRLPRO	09	B	P		SURVEY @ 3081' 2- MISS RUNS ( CALL FOR NEW TOOL)
	10:30 - 14:30	4.00	DRLPRO	02	B	P		DRLG F/ 3165' TO 3418' = 253' - 63' HR, WOB = 15K,STRING WT = 77K,UP=80K,DWN=72K, ROT=77K, 120 SPM, GPM= 454, PP = 1200 PSI, OFF BTM = 1050 PSI, MUD WT = 8.4 VIS = 36 MM RPM = 100 , ROTARY = 55
	14:30 - 15:00	0.50	DRLPRO	09	B	P		SURVEY @ 3344' = 0.8 DEGREE, 174.2 AZ, 63.8' CENTER TO CENTER, W/ 3.05' SAFETY FACTOR
	15:00 - 16:30	1.50	DRLPRO	02	B	P		DRLG F/ 3418' TO 3544' = 126' = 84' HR , WOB = 15K,STRING WT =81K,UP=,85K,DWN=,75K, ROT=,81K, 120 SPM,454 GPM, PP= 1300 PSI, OFF BTM= 1120 PSI, MUD WT = 8.8 VIS = 37 ROTARY = 55
	16:30 - 17:00	0.50	DRLPRO	06	A	P		LUBRICATE RIG
	17:00 - 0:00	7.00	DRLPRO	02	B	P		DRLG F/ 3544' TO 4019' = 475' = 68' HR, WOB= 15K, STRING WT = 103K,UP = 108, DWN= 98K,ROT=103K, 120 SPM, 454GPM, PP = 1420, PSI OFF BTM = 1300 PSI, MUD WT = 9.0 VIS = 40 , ROTARY = 55
2/9/2009	0:00 - 0:30	0.50	DRLPRO	02	B	P		DRLG F/ 4019' TO 4051' = 32' = 64' HR, WOB = 15,STRING WT = 104,UP=108,DWN=100,ROT=104,ROTARY=55,PP= 1400PSI,OFF BTM=1250 PSI, MM = 100, GPM=454,MUD WT = 9.1,VIS=40
	0:30 - 1:00	0.50	DRLPRO	09	B	P		SURVEY @ 3966' = 1.6 DEGREE, 139.8 AZ, 66' CENTER TO CENTER, 2.84 SAFETY FACTOR

## ROCKIES

## Operation Summary Report

Well: NBU 921-27MT			Spud Conductor: 11/9/2008				Spud Date: 12/7/2008	
Project: UTAH			Site: UINTAH				Rig Name No: PIONEER 69/69, PROPETRO/	
Event: DRILLING			Start Date: 12/7/2008				End Date: 2/20/2009	
Active Datum: RKB @4,992.00ft (above Mean Sea Level)			UWI: 0/9/S/21/E/27/0/SWSW/6/PM/S/634.00/W/0/931.00/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	1:00 - 7:00	6.00	DRLPRO	02	B	P		DRLG F/ 4051' TO 4557' = 506' = 84' HR, WOB=15K,STRING WT=114,UP=120K,DWN=99K,ROT=114K,ROTARY=55,PP=1750PSI, OFF BTM= 1600 PSI, MUD WT = 9.8 VIS = 39. GPM=454
	7:00 - 7:30	0.50	DRLPRO	09	B	P		SURVEY @ 4474' = 2.0 DEGREE, 145.6 AZ 85' CENTER TO CENTER, 3.3 SAFETY FACTOR
	7:30 - 13:30	6.00	DRLPRO	02	B	P		DRLG F/ 4557' TO 4936' = 379' = 63' HR, WOB=15K,SRING WT=118K,UP=122K,DWN=102K,ROT=118K,ROTARY=55,PP=1900PSI OFF BTM=1750 PSI, GPM = 454, MUD WT = 10.0 VIS 39
	13:30 - 14:00	0.50	DRLPRO	06	A	P		LUBRICATE RIG
	14:00 - 15:30	1.50	DRLPRO	02	B	P		DRLG F/ 4936' TO 5062' = 126' = 84' HR, WOB=15K,STRING WT=118K,UP=122K,DWN=102K,ROT=118K,ROTARTY=55,PP=1900 PSI,OFF BTM = 1750 PSI, GPM=454 MUD WT = 10.0 VIS = 40
	15:30 - 16:00	0.50	DRLPRO	09	B	P		SURVEY @ 4978' = 1.3 DEGREE, 141.9 AZ
	16:00 - 0:00	8.00	DRLPRO	02	B	P		DRLG F/ 5062' TO 5537' = 475' = 60' HR , WOB = 15K,STRING WT=122K,UP=130KDWN=115K,ROT=122K, ROTARY=55, PP=2020PSI,OFF BTM=1880PSI, MUD WT=10.4 VIS= 42
2/10/2009	0:00 - 16:00	16.00	DRLPRO	02	B	P		DRLG F/ 5537' TO 6359' = 822' = 51' HR, WOB=17K,STRING WT=136K,UP/DWN=140/130,ROT=133K,ROTARY=50,SPM=120,GPM=454,PP=2200 PSI,OFF BTM = 2050 PSI, MUDD WT= 10.4 VIS = 41 MM RPM=100
	16:00 - 16:30	0.50	DRLPRO	06	A	P		LUBRICATE RIG
	16:30 - 17:30	1.00	DRLPRO	02	B	P		DRLG F/ 6359' TO 6391' = 32' HR, WOB=17K,STRING WT = 136K, UP/DWN=140K,130K,ROT=133K,ROTARTY=50,MMRPM=100SPM=120.GPM=454,PP=2000 PSI OFF BTM= 2050 PSI, MUD WT = 10.4 VIS 42
	17:30 - 18:00	0.50	DRLPRO	07	A	Z		REPLACE ELECTRIC LINE TO AIR COMP
	18:00 - 0:00	6.00	DRLPRO	02	B	P		DRLG F/ 6391' TO 6591' = 200' = 33' HR, WOB=19K,STRING WT = 136K,UP/DWN=140K,130K,ROT=133K, ROTARY 50,MM=100RPM SPM=120,GPM=454,PP=2200 PSI,OFF BTM=2050 PSI, MUD WT=10.4 VIS = 41
2/11/2009	0:00 - 6:00	6.00	DRLPRO	02	B	P		DRLG F/ 6591' TO 6730' = 139' = 23' HR, WOB = 20K, STRING WT = 136K, UP / DWN / 140K, / 130K, ROT = 133K, RPM = 50, MM RPM = 100, GPM = 454, DIFF PRESS = 289 PSI , PP = 2200 PSI, OFF BTM PRESS = 2050 PSI, MUD WT = 10.4 VIS = 41
	6:00 - 6:30	0.50	DRLPRO	04	C	P		CIRC,BUILD & PUMP SLUG
	6:30 - 10:30	4.00	DRLPRO	05	A	P		TRIP F/ BIT # 1, L/D BIT #1, MUD MTR, MONEL DC, AND IBS
	10:30 - 11:30	1.00	DRLPRO	05	A	P		P/U BIT # 2-Q506-.16 MUD MTR, TRIP IN BHA
	11:30 - 12:00	0.50	DRLPRO	06	A	P		LUBRICATE RIG
	12:00 - 15:00	3.00	DRLPRO	05	A	P		TRIP IN HOLE ( FILL PIPE @ 2470' )
	15:00 - 15:30	0.50	DRLPRO	03	D	P		WASH & REAM 70' TO BOTTOM ( 2 ' FILL )
	15:30 - 0:00	8.50	DRLPRO	02	B	P		DRLG F/ 6730' TO 7083' = 353' = 42' HR, WOB = 19K, STRING WT = 143K, UP / DWN / = 150K / 135K, ROT = 143K, RPM = 50, MMRPM = 60, GPM = 454, DIFF PRESS = 250 PSI, PP= 2050 PSI, OFF BTM = 1850 PSI, MUD WT = 10.8 VIS = 44 ( BIT BALLING )

## ROCKIES

## Operation Summary Report

Well: NBU 921-27MT		Spud Conductor: 11/9/2008		Spud Date: 12/7/2008	
Project: UTAH		Site: UINTAH		Rig Name No: PIONEER 69/69, PROPETRO/	
Event: DRILLING		Start Date: 12/7/2008		End Date: 2/20/2009	
Active Datum: RKB @4,992.00ft (above Mean Sea Level)		UWI: 0/9/S/21/E/27/0/SWSW/6/PM/S/634.00/W/0/931.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
2/12/2009	0:00 - 16:30	16.50	DRLPRO	02	B	P		DRLG F/ 7083' TO 7557' = 474' = 29' HR, FORMATION 95% TIGHT SILTSTONE, WOB = 20K, STRING WT = 149K, UP = 155K, DOWN = 145K, ROTATION = 149K, RPM = 55, MUD MTR RPM = 70, GPM = 454, PUMP PRESS ON BTM = 2100 PSI, OFF BTM = 1950 PSI, DIFF PRESS = 210 PSI, MUD WT = 10.8 VIS = 44
	16:30 - 17:00	0.50	DRLPRO	06	A	P		LUBRICATE RIG
	17:00 - 0:00	7.00	DRLPRO	02	B	P		DRLG F/ 7557' TO 7684' = 127' = 18' HR, FORMATION 95% TIGHT SILTSTONE, WOB= 18K, STRING WT = 151K, 155K UP, 145K DOWN, ROTATION = 151K, RPM= 45, MUD MTR RPM = 70, GPM = 454, PUMP PRESS ON BTM = 2200 PSI, OFF BTM = 1950 PSI, DIFF PRESS = 190-210 PSI, MUD WT = 10.9 VIS = 43
2/13/2009	0:00 - 15:00	15.00	DRLPRO	02	B	P		DRLG F/ 7684' TO 8063' = 379' = 25' HR, WOB = 20K, STRING WT = 155K, UP=160, DWN= 149K, ROT = 155K, FORMATION 96% TIGHT SILTSTONE STRINGERS, RPM = 63, MUD MTR RPM = 70, PUMP PRESS = 2210 PSI, OFF BTM = 1950 PSI, DIFF PRESS = 150 TO 330 PSI, MUD WT = 10.9+ VIS = 44
	15:00 - 15:30	0.50	DRLPRO	06	A	P		LUBRICATE RIG
	15:30 - 19:00	3.50	DRLPRO	02	B	P		DRLG F/ 8063' TO 8138' = 75' = 22' HR WOB = 21K, STRING WT = 155K, UP = 160K, DWN = 149K, ROT = 155K, FORMATION 96% TIGHT SILTSTONE W/ CLAY STRINGERS, RPM = 58, MUD MTR RPM = 70, PUMP PRESS = 2200 PSI, OFF BTM PRESS = 1940 PSI, DIFF PRESS = 150 TO 300 PSI, MUD WT = 11.0 VIS = 44
2/14/2009	19:00 - 19:30	0.50	DRLPRO	04	C	P		CIRC,BUILD AND PUMP SLUG
	19:30 - 23:30	4.00	DRLPRO	05	A	P		TRIP F/ BIT # 2
	23:30 - 0:00	0.50	DRLPRO	05	A	P		LAY DWN BIT # 1 AND MAKE UP BIT # 3
	0:00 - 1:00	1.00	DRLPRO	05	A	P		TRIP IN TO SHOE,FILL DRILL PIPE
	1:00 - 2:30	1.50	DRLPRO	06	D	P		SLIP AND CUT 65' DRLG LINE = 13 WRAPS
	2:30 - 5:00	2.50	DRLPRO	05	A	P		TRIP IN HOLE NO PROBLEMS
	5:00 - 5:30	0.50	DRLPRO	03	C	P		WASH AND REAM 58' TO BOTTOM ( NO FILL )
	5:30 - 16:00	10.50	DRLPRO	02	B	P		DRLG F/ 8138' TO 8570' = 432' = 41' HR, WOB = 16K-18K, STRING WT = 164K, UP = 170K, DWN = 160K, ROT = 164K, ROTARY = 55, MUD MTR = 70, PUMP PRESS = 2320 PSI, OFF BTM = 2100 PSI, DIFF PRESS = 250 PSI, MUD WT = 11.2 VIS = 44, TRIP GAS = 1120 UNITS NO FLARE
	16:00 - 16:30	0.50	DRLPRO	06	A	P		LUBRICATE RIG
2/15/2009	16:30 - 0:00	7.50	DRLPRO	02	B	P		DRLG F/ 8570' TO 8918' = 348' = 46' HR, WOB = 18K,STRING WT = 168K,UP = 175K, DWN = 160 K, ROT= 168K, ROTARY = 55, MUD MTR = , 70, PUMP PRESS = 2450 PSI, OFF BTM = 2280 PSI, DIFF PRESS = 350 PSI, MUD WT = 11.4 VIS = 45, BACKGROUND GAS 0-300 UNITS, HIGH GAS = 6450 UNITS W/ NO FLARE
	0:00 - 17:00	17.00	DRLPRO	02	B	P		DRLG F/ 8918' TO 9519' = 601' = 35' HR, WOB = 20K,STRING WT = 169K,UP = 175K, DWN = 160 K, ROT = 169K, ROTARY = 55-60, MUD MTR = 70, PUMP PRESS = 2500 PSI, OFF BTM = 2320 PSI, DIFF PRES = 250 PSI, MUD WT = 11.9 VIS = 44, BACK GROUND GAS = 0-1500 UNITS, MUD WT = 11.9 VIS = 45
	17:00 - 17:30	0.50	DRLPRO	06	A	P		LUBRICATE RIG

# ROCKIES

## Operation Summary Report

Well: NBU 921-27MT		Spud Conductor: 11/9/2008		Spud Date: 12/7/2008	
Project: UTAH		Site: UINTAH		Rig Name No: PIONEER 69/69, PROPETRO/	
Event: DRILLING		Start Date: 12/7/2008		End Date: 2/20/2009	
Active Datum: RKB @4,992.00ft (above Mean Sea Level)		UWI: 0/9/S/21/E/27/0/SWSW/6/PM/S/634.00/W/0/931.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	17:30 - 0:00	6.50	DRLPRO	02	B	P		DRLG F/ 9519' TO 9677' = 158' = 24' HR, WOB = 20-21K, STRING WT = 180K, UP = 187K, DWN = 172K, ROT=180K,ROTARY = 55-60, MUD MTR = 70, PUMP PRESS = 2500 PSI,OFF BTM = 2350 PSI, DIFF PRESS = 250 PSI, MUD WT = 11.9 VIS = 44, BACKGROUND GAS = 0-400 UNITS
2/16/2009	0:00 - 0:30	0.50	DRLPRO	16	E	X		WORK TIGHT CONNECTION @ 9677' LOST 60 BBLS MUD, WATER FLOW, START RAISING MUD WT AND LCM CONTENT
	0:30 - 18:30	18.00	DRLPRO	02	B	P		DRLG F/ 9677' TO 9880' T.D.= 203' = 11' HR, WOB = 21K,STRING WT = 190K, UP = 200K,DOWN = 180K, ROT= 190K, ROTARY 50 TO 60, MUD MTR = 70 RPM, PUMP PRESS = 2520 PSI, OFF BTM = 2400 PSI, DIFF PRESS = 150 - 200 PSI, MUD WT = 12.0 TO 12.9+ VIS = 48, TO KILL WATER FLOW, LCM CONTENT = 6 % NO LOSSES, BACKGROUND GAS = 100 UNITS
	18:30 - 19:00	0.50	DRLPRO	04	C	P		CIRC,BUILD & PUMP SLUG, CHECK FLOW , NO FLOW
	19:00 - 22:00	3.00	DRLPRO	05	E			SHORT TRIP TO 8100' ( NO PROBLEMS )
	22:00 - 23:30	1.50	DRLPRO	04				CIRC TO TRIP OUT F/ LOGS, PUMP SLUG
	23:30 - 0:00	0.50	DRLPRO	05	B	P		TRIP F/ TRIPLE COMBO LOGS
2/17/2009	0:00 - 6:00	6.00	DRLPRO	05	B	P		TRIP F/ TRIPLE COMBO LOGS, TIGHT @ 3791' AND 3766', WORK THROUGH SAME
	6:00 - 9:30	3.50	DRLPRO	10	C	P		HELD SAFETY MTNG W/ BAKER - ATLAS & RIG CREWS RIG UP AND RUN TRIPLE COMBO LOG, HIT TIGHT SPOT @ 4450' WORK STUCK TOOL, LINE TENSION MAX = 12K LINE TENNSION WAS @ 6,500 WHEN LINE WAS PULLED OUT OF ROPE SOCKET,PULL WIRE OUT OF HOLE AND RELEASE TRUCK
	9:30 - 14:00	4.50	DRLPRO	12	F	X		WAIT ON FISHING TOOLS AND FISHING HAND TO RETREIVE LOGGING TOOL
	14:00 - 16:30	2.50	DRLPRO	16	A	X		P/U 7 3/8" OVER SHOT W/ 3 3/8 GRAPPLE BUMPER SUB & JARS TIH TO 4360'
	16:30 - 17:00	0.50	DRLPRO	04	A	P		CIRC BOTTOMS UP
	17:00 - 22:00	5.00	DRLPRO	16	A	X		ATTEMPT TO ENGAGE FISH F/ 4420' TO 4485' DID NOT TAG ANYTHING,TIH
	22:00 - 0:00	2.00	DRLPRO	16	A	X		WASH OVERSHOT F/ 9766' TO 9820' ,CIRC BOTTOMS UP
2/18/2009	0:00 - 1:30	1.50	DRLPRO	16	A	X		WASH & WORK OVER SHOT @ 9820' ,DRILL STRING HOLDING PRESSURE OFF BOTTOM W/ PUMP KICKED OUT
	1:30 - 9:00	7.50	DRLPRO	16	A	X		TOOH W/ FISH (CHAIN OUT WET)
	9:00 - 11:30	2.50	DRLPRO	16	A	X		BREAK DOWN LOGGING TOOLS IN MOUSE HOLE & L/D FISHING TOOLS
	11:30 - 12:00	0.50	DRLPRO	06	A	P		RIG SERVICE, ADJUST BRAKES
	12:00 - 15:00	3.00	DRLPRO	05	E	P		M/U RR BIT & BIT SUB TIH TO 4500'
	15:00 - 15:30	0.50	DRLPRO	04	A	P		FILL PIPE
	15:30 - 18:00	2.50	DRLPRO	05	E	P		FINISH TIH, TAG @ 9744' ( LOST 80 BBLS ON TRIP )
	18:00 - 19:00	1.00	DRLPRO	03	E	P		WASH & REAM F/ 9744' TO 9880' ( NO FILL )
	19:00 - 21:00	2.00	DRLPRO	04	C	P		CIRC & COND,BUILD 80 BBLS VOLUME
	21:00 - 0:00	3.00	DRLPRO	05	A	P		TOOH F/ LOGS ( NO PROBLEMS )
2/19/2009	0:00 - 1:00	1.00	DRLPRO	05	A	P		FINISH TOOH F/LOGS
	1:00 - 9:30	8.50	DRLPRO	10	C	P		SAFETY MEETING W/ BAKER ATLAS, R/U TOOLS NOT READING CORRECTLY,P/U NEW LOGS ,RUN TRIPLE COMBO TO 9883' (NO HOLE PROBLEMS )

ROCKIES  
Operation Summary Report

Well: NBU 921-27MT		Spud Conductor: 11/9/2008		Spud Date: 12/7/2008	
Project: UTAH		Site: UINTAH			Rig Name No: PIONEER 69/69, PROPETRO/
Event: DRILLING		Start Date: 12/7/2008		End Date: 2/20/2009	
Active Datum: RKB @4,992.00ft (above Mean Sea Level)		UWI: 0/9/S/21/E/27/0/SWSW/6/PM/S/634.00/W/0/931.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
2/20/2009	9:30 - 11:00	1.50	DRLPRO	05	A	P		M/U BIT & BIT SUB TIH TO 4500'
	11:00 - 12:00	1.00	DRLPRO	04	A	P		FILL PIPE
	12:00 - 14:30	2.50	DRLPRO	05	A	P		FINISH TIH ,( LOST 60 BBLS ON TRIP )
	14:30 - 18:00	3.50	DRLPRO	04	C	P		CIRC & COND F/ LDDP,BUILD 60 BBLS VOLUME ,SAFETY MEETING W/ KIMZEY CASING R/U L/D MACHINE , BUILD & PUMP PILL
	18:00 - 23:30	5.50	DRLPRO	05	A	P		LDDP,BREAK KELLY ,L/D BHA ,PULL WEAR RING
	23:30 - 0:00	0.50	DRLPRO	11	A	P		SAFETY MEETING W/ KIMZEY CASING,START R/U CASERS
	0:00 - 2:00	2.00	DRLPRO	11	A	P		R/U KIMZEY CASERS
	2:00 - 9:00	7.00	DRLPRO	11	B	P		RUN 233 JTS 4.5,11.6,I-80 PROD CASING TO 9876'
	9:00 - 12:00	3.00	DRLPRO	04	E	P		CIRC F/ CEMENT ,R/D KIMZEY CASING ( LOCATION TO SMALL HAD TO GET KIMZEY OFF LOCATION BEFORE BJ SERVICES COULD GET ON LOCATION ) SAFETY MEETING W/ BJ & R/U
	12:00 - 15:30	3.50	DRLPRO	15	A	P		PUMP 20 BBLS MUD CLEAN,20 SX SCAVENGER,632 SX LEAD,1423 SX TAIL,DISPLACE W/ 153 BBLS CLAYTREAT WATER,BUMP PLUG @ 3615 PSI,FLOATS HELD 3120 PSI LIFT ,NO CEMENT TO SURFACE,FULL RETURNS THROUGH OUT JOB,R/D CEMENTERS
	15:30 - 20:00	4.50	DRLPRO	13	A	P		PACK OFF & TEST HANGER TO 5000 PSI ,NIPPLE DOWN & CLEAN PITS ,RELEASE RIG @ 20:00 2/20/2009 TO NBU 921-27OT

# ROCKIES

## Operation Summary Report

Well: NBU 921-27MT			Spud Conductor: 11/9/2008				Spud Date: 12/7/2008	
Project: UTAH			Site: UINTAH				Rig Name No: MILES-GRAY 1/1	
Event: COMPLETION			Start Date: 4/30/2009				End Date: 5/6/2009	
Active Datum: RKB @4,992.00ft (above Mean Sea Level)			UWI: 0/9/S/21/E/27/0/SWSW/6/PM/S/634.00/W/0/931.00/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
4/30/2009	7:00 - 7:15	0.25	COMP	48		P		HSM, ROADING RIG
	7:15 - 17:00	9.75	COMP	47	A			R/D, ROD RIG FROM NBU 922-32ET TO 921-27MT, MIRU SPOT EQUIP, N/D WELL HEAD, N/U BOPS, R/U TBG EQUIP, P/U 3-7/8 MILL TALLEY & P/U 2/3/8 L-80 TBG EOT @ ', SWIFN.
5/1/2009	7:00 - 7:15	0.25	COMP	48		P		HSM, PT/ CSG
	7:15 - 17:00	9.75	COMP	47	B	P		FINISH OOH W/ 2-3/8 TBG & BHA, R/D TBG EQUIP, N/D BOPS, N/U FRAC VALVES, MIRU B&C TESTERS, P/T CSG & FRAC VALVES TO 7500#, [GOOD TEST] R/D TESTERS, MIRU CUTTER WIRE LINE. P/U RIH W/ 3-3/8 EXPEND, 23GRM, 0.36" HOLE, 9774'-9780' 3 SPF, 120* PH, 9750'-9752' 3 SPF, 6 HOLES, 9676'-9680' 4 SPF, 16 HOLES, R/D CUTTERS, SWIFN.
5/4/2009	7:00 - 7:15	0.25	COMP	48		P		HSM, FRACING

## ROCKIES

## Operation Summary Report

Well: NBU 921-27MT		Spud Conductor: 11/9/2008		Spud Date: 12/7/2008	
Project: UTAH		Site: UINTAH			Rig Name No: MILES-GRAY 1/1
Event: COMPLETION		Start Date: 4/30/2009		End Date: 5/6/2009	
Active Datum: RKB @4,992.00ft (above Mean Sea Level)		UWI: 0/9/S/21/E/27/0/SWSW/6/PM/S/634.00/W/0/931.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	7:15 - 17:00	9.75	COMP	36	E	P		<p>MIRU WEATHERFORD FRAC EQUIP &amp; CUTTERS WIRE LINE, FFRAC MESA VERDE STG #1 9676'-9680' [40 HOLES]</p> <p>STG #1] WHP=1600#, BRK DN PERFS @ 3335#, INJ PSI=5000#, INJ RT= 49.7, ISIP=2662#, FG=.72, PUMP'D 1202 BBLS SLK WTR W/ 42182# 30/50 MESH W/ 4965# RESIN COAT IN TAIL, ISIP=3007#, FG=.75, AR=51.6, AP=5037#, MR=51.7, MP=6591#, NPI=345#, 40/40 CALC PERFS OPEN.</p> <p>STG #2] P/U RIH W/ BKR 8K CBP &amp; PERF GUN, SET CBP @ 9574', PERF MESAVERDE USING 3-3/8 EXPEND, 23GRM, 0.36" HOLE, 9542'-9544 3 SPF, 120* PH, 6 HOLES, 9434'-9438 4 SPF, 90* PH, 16 HOLES, 9344'-9348' 3 SPF, 120* PH, 12 HOLES, 9306'-9308' 6 HOLES [40 HOLES]</p> <p>WHP=0#, BRK DN PERFS @ 3877#, INJ PSI=5800#, INJ RT=53.7 , ISIP=3080#, FG=.77, PUMP'D 1033.7 BBLS SLK WTR W/ 3840# 30/50 MESH W/ # RESIN COAT IN TAIL, ISIP=3232#, FG=.79, AR=53.6, AP=5480#, MR=54, MP=6454#, NPI=152#, 35/40 CALC PERFS OPEN.</p> <p>STG #3] P/U RIH W/ BKR 8K CBP &amp; PERF GUN, SET CBP @ 9268', PERF MESAVERDE USING 3-3/8 EXPEND, 23GRM, 0.36" HOLE, 3 SPF, 90* PH, 9234'-9238' 12 HOLES, 9134'-9140' 18 HOLES, 9010'-9014' 12 HOLES [40 HOLES]</p> <p>WHP=0#, BRK DN PERFS @ 3744#, INJ PSI=5650#, INJ RT=56.2 , ISIP=2418#, FG=.71, PUMP'D 2927.4 BBLS SLK WTR W/ 109364# 30/50 MESH W/ 5022# RESIN COAT IN TAIL, ISIP=3062#, FG=.78, AR=52.8, AP=5016#, MR=58.8, MP=6180#, NPI=644#, 30/40 CALC PERFS OPEN.</p> <p>STG #4] P/U RIH W/ BKR 8K CBP &amp; PERF GUN, SET CBP @ 8944', PERF MESAVERDE USING 3-3/8 EXPEND, 23GRM, 0.36" HOLE, 3 SPF, 90* PH, 9234'-9238' 12 HOLES, 9134'-9140' 18 HOLES, 9010'-9014' 12 HOLES [40 HOLES]</p> <p>WHP=460#, BRK DN PERFS @ 3857#, INJ PSI=5450#, INJ RT=50.8 , ISIP=2430#, FG=.72, PUMP'D 2181 BBLS SLK WTR W/ 88241# 30/50 MESH W/ 4957# RESIN COAT IN TAIL, ISIP=3043#, FG=.79, AR=50.3, AP=4638#, MR=50.8, MP=5614#, NPI=613#, 40/40 CALC PERFS OPEN.</p> <p>STG #5] P/U RIH W/ BKR 8K CBP &amp; PERF GUN, SET CBP @ 8654', PERF MESAVERDE USING 3-3/8 EXPEND, 23GRM, 0.36" HOLE, 4 SPF, 120* PH, 8620'-8624' 16 HOLES, 8590'-8596' 24 HOLES, [40 HOLES]</p> <p>WHP=0#, BRK DN PERFS @ 4201#, INJ PSI=5200#, INJ RT=50.7 , ISIP=2908#, FG=.72, PUMP'D 717 BBLS SLK WTR W/ 24750# 30/50 MESH W/ 5063# RESIN COAT IN TAIL, ISIP=2996#, FG=.79, AR=51.1, AP=4791#, MR=50.7, MP=5299#, NPI=88#, 40/40 CALC PERFS OPEN.</p>

## ROCKIES

## Operation Summary Report

Well: NBU 921-27MT		Spud Conductor: 11/9/2008		Spud Date: 12/7/2008	
Project: UTAH		Site: UINTAH		Rig Name No: MILES-GRAY 1/1	
Event: COMPLETION		Start Date: 4/30/2009		End Date: 5/6/2009	
Active Datum: RKB @4,992.00ft (above Mean Sea Level)		UWI: 0/9/S/21/E/27/0/SWSW/6/PM/S/634.00/W/0/931.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
								STG #6] P/U RIH W/ BKR 8K CBP & PERF GUN, SET CBP @ 8480', PERF MESAVERDE USING 3-3/8 EXPEND, 23GRM, 0.36" HOLE, 8446'-8450' 3 SPF, 120* PH, 12 HOLES, 8398'-8402' 4 SPF, 90* PH, 16 HOLES, 8384'-8352' 3 SPF, 120* PH, 12 HOLES [40 HOLES]
								WHP=0#, BRK DN PERFS @ 3526#, INJ PSI=5300#, INJ RT= 52.2, ISIP=2187#, FG=.70, PUMP'D 1608 BBLS SLK WTR W/ 64789# 30/50 MESH W/ 4995# RESIN COAT IN TAIL, ISIP=2845#, FG=78., AR=52.7, AP=4657#, MR=53.7, MP=5650#, NPI=658#, 32/40 CALC PERFS OPEN.
								STG #7] P/U RIH W/ BKR 8K CBP & PERF GUN, SET CBP @ 8140', PERF MESAVERDE USING 3-3/8 EXPEND, 23GRM, 0.36" HOLE, 4 SPF, 90* PH, 8106'-8110' 16 HOLES, 8064'-8070' 24 HOLES [40 HOLES] SWIFN. 17:00 HRS.
5/5/2009	7:00 - 7:15	0.25	COMP	48		P		HSM, FRACING / TIH
	7:15 - 17:00	9.75	COMP	36	E	P		FRC STG #7 MESAVERDE 8064'-8110' 40 HOLES.
								WHP=630#, BRK DN PERFS @ 2973#, INJ PSI=4300#, INJ RT=49.5, ISIP=1715#, FG=.65, PUMP'D 1924 BBLS SLK WTR W/ 73362# 30/50 MESH W/ 4890# RESIN COAT IN TAIL, ISIP=2781#, FG=.79, AR=50.2, AP=4220#, MR=51.7, MP=5615#, NPI=1066#, 33/40 CALC PERFS OPEN.
								STG #8] P/U RIH W/ BKR 8K CBP & PERF GUN, SET CBP @ 7944' PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE, 4 SPF, 90* PH, 8106'-8110' 16 HOLES, 8064'-8070' 24 HOLES [40 HOLES]
								WHP=0#, BRK DN PERFS @ 3766#, INJ PSI=4100#, INJ RT=50.4, ISIP=2079#, FG=.71, PUMP'D 4088 BBLS SLK WTR W/ 91767# 30/50 MESH W/ 4870# RESIN COAT IN TAIL, ISIP=2795#, FG=.80, AR=50.4, AP=3921#, MR=51, MP=5698#, NPI=716#, 40/40 CALC PERFS OPEN.
								P/U RIH W/ BKR 8K CBP, SET CBP @ 7718', R/D CUTTERS WIRE LINE & WEATHERFORD FRAC EQUIP, N/D FRAC VALVES, N/U BOPS, R/U TBG EQUIP, P/U 3-7/8 BIT W/ POBS PKG, RIH W/ 2-3/8 L-80 TBG, TAG KILL PLUG @ 7718', P/U PWR SWVL, PREP TO DRL IN A.M
5/6/2009	7:00 - 7:15	0.25	COMP	48		P		HSM, MAKING CONNECTIONS

## ROCKIES

## Operation Summary Report

Well: NBU 921-27MT		Spud Conductor: 11/9/2008		Spud Date: 12/7/2008	
Project: UTAH		Site: UINTAH		Rig Name No: MILES-GRAY 1/1	
Event: COMPLETION		Start Date: 4/30/2009		End Date: 5/6/2009	
Active Datum: RKB @4,992.00ft (above Mean Sea Level)		UWI: 0/9/S/21/E/27/0/SWSW/6/PM/S/634.00/W/0/931.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	7:15 - 15:00	7.75	ABAND	44	C	S		<p>OPEN WELL 0# SICP, 0# SITP, EST CIRC W/ RIG PUMP,</p> <p>PLUG #1] DRL THROUGH BKR 8K CBP @ 7720' IN 7 MIN, 1000# INCREASE.</p> <p>PLUG #2] CONTINUE TO RIH TAG SAND @ 7914' [26' FILL] C/O &amp; DRL THROUGH BKR 8K CBP @ 7940' IN 8 MIN. W/ 200# INCREASE.</p> <p>PLUG #3] CONTINUE TO RIH, TAG SAND @ 8110' [30' FILL] C/O &amp; DRL THROUGH BKR 8K CBP @ 8140' IN 10 MIN, W/ 400# INCREASE.</p> <p>PLUG #4] CONTINUE TO RIH TAG SAND @ 8450' [30' FILL] C/O &amp; DRL THROUGH BKR 8K CBP @ 8480' IN 10 MIN. W/ 200# INCREASE,</p> <p>PLUG #5] CONTINUE TO RIH TAG SAND @ 8624' [26' FILL] C/O &amp; DRL THROUGH BKR 8K CBP @ 8650' IN 8 MIN. W/ 400# INCREASE.</p> <p>PLUG #6] CONTINUE TO RIH, TAG SAND @ 8914' [30' FILL] C/O &amp; DRL THROUGH BKR 8K CBP @ 8944' IN 10 MIN. W/ 300# INCREASE.</p> <p>PLUG #7] CONTINUE TO RIH, TAG SAND @ 9208' [60' FILL] C/O &amp; DRL THROUGH BKR 8K CBP @ 9268' IN 10 MIN. W/ 100# INCREASE.</p> <p>PLUG #8] CONTINUE TO RIH, TAG SAND @ 9544' [30' FILL] C/O &amp; DRL THROUGH BKR 8K CBP @ 9574 IN 10 MIN. W/ 400# INCREASE.</p> <p>CONTINUE TO RIH &amp; C/O TO PBTD @ 9833' CIRC HOLE, L/D 22 JNTS, R/D PWR SWVL, R/D TBG EQUIP, N/D BOPS, N/U WELL HEAD, DROP BALL, PUMP OFF BIT W/ 2300#, SWI FOR 30 MIN. TURN OVER TO F/B CREW.</p>
5/7/2009	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 1750#, TP 1700#, 20/64" CK, 70 BWPH, 1CUP SAND, - GAS</p> <p>TTL BBLS RECOVERED: 4870</p> <p>BBLS LEFT TO RECOVER: 8298</p>
5/8/2009	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 2000#, TP 1850#, 20/64" CK, 70 BWPH, 1/4 CUP SAND, - GAS</p> <p>TTL BBLS RECOVERED: 6790</p> <p>BBLS LEFT TO RECOVER: 6378</p>
5/9/2009	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 2000#, TP 2000#, 20/64" CK, 70 BWPH, 1/8 CUP SAND, - GAS</p> <p>TTL BBLS RECOVERED: 8470</p> <p>BBLS LEFT TO RECOVER: 4698</p>
	10:00 -			50				<p>WELL TURNED TO SALE @ 1000 HR ON 5/9/09-FTP 1950#, CP 2050#, 1000 MCFD, 60 BWPD, 18/64" CK</p>
5/10/2009	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 2250#, TP 2050#, 18/64" CK, 45 BWPH, - SAND, - GAS</p> <p>TTL BBLS RECOVERED: 9670</p> <p>BBLS LEFT TO RECOVER: 3498</p>
5/11/2009	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 2750#, TP 2050#, 18/64" CK, 45 BWPH, 1 TBSP SAND, 1123 GAS</p> <p>TTL BBLS RECOVERED: 10826</p> <p>BBLS LEFT TO RECOVER: 2342</p>

## ROCKIES

## Operation Summary Report

Well: NBU 921-27MT			Spud Conductor: 11/9/2008			Spud Date: 12/7/2008			
Project: UTAH			Site: UINTAH				Rig Name No: MILES-GRAY 1/1		
Event: COMPLETION			Start Date: 4/30/2009				End Date: 5/6/2009		
Active Datum: RKB @4,992.00ft (above Mean Sea Level)				UWI: 0/9/S/21/E/27/0/SWSW/6/PM/S/634.00/W/0/931.00/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation	
5/12/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 3300#, TP 2000#, 18/64" CK, 45 BWPH, TSP. SAND, 1220 GAS TTL BBLS RECOVERED: 11922 BBLS LEFT TO RECOVER: 1246	

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ FORM 8  
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: ST UO-1194A	
b. TYPE OF WORK: NEW WELL <input checked="" type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR: KERR McGEE OIL & GAS ONSHORE LP		7. UNIT or CA AGREEMENT NAME UNIT 891008900A	
3. ADDRESS OF OPERATOR: 1368 S 1200 E CITY VERNAL STATE UT ZIP 84078		8. WELL NAME and NUMBER: NBU 921-27MT	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 634'FSL, 931'FWL  AT TOP PRODUCING INTERVAL REPORTED BELOW:  AT TOTAL DEPTH:		9. API NUMBER: 4304740171	
10. FIELD AND POOL, OR WILDCAT NATURAL BUTTES		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 27 9S 21E	
12. COUNTY UINTAH		13. STATE UTAH	
14. DATE SPUDDED: 11/19/2009	15. DATE T.D. REACHED: 2/16/2009	16. DATE COMPLETED: 5/9/2009	17. ELEVATIONS (DF, RKB, RT, GL): 4974'GL
18. TOTAL DEPTH: MD 9,880 TVD		19. PLUG BACK T.D.: MD 9,833 TVD	20. IF MULTIPLE COMPLETIONS, HOW MANY? *
21. DEPTH BRIDGE MD PLUG SET: TVD		22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) CBL-CCL-GR	
23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit copy)			

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#		40		28			
12 1/4"	9 5/8 J-55	36#		2,500		725			
7 7/8"	4 1/2 I-80	11.6#		9,880		2055			

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	9,268							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) MESAVERDE	7,768	9,680			7,768 9,680	0.36	322	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B) WSMVD								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

27. PERFORATION RECORD

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7768'-9680'	PMP 15,758 BBLS SLICK H2O & 498,295# 30/50 OTTOWA SD

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

29. ENCLOSED ATTACHMENTS: <input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION		<input type="checkbox"/> GEOLOGIC REPORT <input type="checkbox"/> CORE ANALYSIS		<input type="checkbox"/> DST REPORT <input type="checkbox"/> OTHER: <b>RECEIVED</b>		<input type="checkbox"/> DIRECTIONAL SURVEY <b>PROD</b>	
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AUG 10 2009

## 31. INITIAL PRODUCTION

## INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 5/9/2009		TEST DATE: 5/18/2009		HOURS TESTED: 24		TEST PRODUCTION RATES: →		OIL – BBL: 0		GAS – MCF: 1,710		WATER – BBL: 147		PROD. METHOD: FLOWING							
CHOKE SIZE: 18/64		TBG. PRESS. 2,050		CSG. PRESS. 2,943		API GRAVITY		BTU – GAS		GAS/OIL RATIO		24 HR PRODUCTION RATES: →		OIL – BBL: 0		GAS – MCF: 1,710		WATER – BBL: 147		INTERVAL STATUS: PROD	

## INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

## INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

## INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

## 32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

SOLD

## 33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
GREEN RIVER	1,497				
BIRDS NEST	1,801				
MAHOGANY	2,291				
WASATCH	4,820	7,743			
MESAVERDE	7,653	9,786			

## 35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) SHEILA WOPSOCK

TITLE REGULATORY ANALYST

SIGNATURE

DATE 7/29/2009

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

\*\* ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340  
Fax: 801-359-3940